

SUPERIOR COURT OF THE STATE OF CALIFORNIA  
COUNTY OF ORANGE - COMPLEX JUSTICE CENTER  
DEPARTMENT CX-102

THE PEOPLE OF THE STATE OF )  
CALIFORNIA, acting by and through )  
acting Santa Clara County Counsel )  
Orry P. Korb and Orange County )  
District Attorney Tony Rackauckas, )  
 )  
Plaintiff, )  
 )  
vs. ) NO. 2014-00725287  
 )  
PURDUE PHARMA L.P.; PURDUE PHARMA, )  
INC.; THE PURDUE FREDERICK COMPANY, )  
INC.; JOHNSON & JOHNSON JANSSEN )  
PHARMACEUTICALS, INC.; ORTHO- )  
MCNEIL-JANSSEN PHARMACEUTICALS, )  
INC., n/k/a JANSSEN )  
PHARMACEUTICALS, INC., n/k/a )  
JANSSEN PHARMACEUTICALS, INC.; ENDO )  
HEALTH SOLUTIONS, INC.; ENDO )  
PHARMACEUTICALS, INC.; WATSON )  
LABORATORIES, INC.; ACTAVIS LLC; )  
and ACTAVIS PHARMA, INC., f/k/a )  
WATSON PHARMA, INC.; and DOES 1 )  
through 100, inclusive, )  
 )  
Defendants. )  
 )

TRIAL PROCEEDINGS  
BEFORE THE HON. PETER J. WILSON, JUDGE PRESIDING  
REPORTER'S TRANSCRIPT OF REMOTE PROCEEDINGS

Tuesday, May 18, 2021

MAGNA LEGAL SERVICES

866-624-6221

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CAROLYN GREGOR, CSR 2351, CRR, CMR, RDR  
Court Approved Reporter Pro Tem  
Court Approved Reporter Pro Tem

1 REMOTE APPEARANCES OF COUNSEL VIA ZOOM  
2 FOR PLAINTIFFS:

3 ROBINSON CALCAGNIE, INC.

BY: MARK ROBINSON, ESQ.

4 KEVIN F. CALCAGNIE, ESQ.

PAUL DAGASTINO, III, ESQ.

5 19 Corporate Plaza Drive

Newport Beach, CA 92660

6 kcalcagnie@robinsonfirm.com

pdagastino@robinsonfirm.com

7  
8 MOTLEY RICE

Attorneys at Law

9 BY: FREDERICK C. BAKER, ESQ.

MICHAEL PENDELL, ESQ.

10 SARA COUCH, ESQ.

CHRISTOPHER MORIARTY, ESQ.

11 KRISTEN HERMIZ, ESQ.

FIDELMA FITZPATRICK, ESQ.

12 ANDREW ARNOLD, ESQ.

JESSICA COLOMBO, ESQ.

13 28 Bridgeside Blvd.

Mt. Pleasant, South Carolina 29464

14 fbaker@motleyrice.com

mpendell@motleyrice.com

15 scouch@motleyrice.com

cmoriarty@motleyrice.com

16 khermiz@motleyrice.com

ffitzpatrick@motleyrice.com

17 aarnold@motleyrice.com

jcolombo@motleyrice.com

1 APPEARANCES (CONTINUED)  
2 FOR THE COUNTY OF SANTA CLARA:  
OFFICE OF THE COUNTY COUNSEL  
3 COUNTY OF SANTA CLARA  
BY: KARUN TILAK, ESQ.  
4 KAVITA NARAYAN, ESQ.  
HANNAH KIESCHNICK, ESQ.  
5 JULIA SPIEGEL, ESQ.  
H. LUKE EDWARDS, ESQ.  
6 70 West Hedding Street, 9th Floor, East Wing  
San Jose, CA 95110-1705  
7 kavita.narayan@cco.sccgov.org  
karun.tilak@cco.sccgov.org  
8 hannah.kieschnick@cco.sccgov.org  
julia.spiegel@cco.sccgov.org  
9 luke.edwards@sccgov.org  
10 FOR THE COUNTY OF LOS ANGELES:  
OFFICE OF LOS ANGELES COUNTY COUNSEL  
11 BY: ANDREA E. ROSS, ESQ.  
TRACY HUGHES, ESQ  
12 500 W. Temple Street, 6th Floor  
Los Angeles, CA 90012  
13 213.787.2310  
aross@counsel.lacounty.gov  
14 thughes@lacounty.gov  
15 FOR THE CITY OF OAKLAND:  
OFFICE OF THE CITY ATTORNEY  
16 BY: MALIA MCPHERSON, ESQ.  
ZOE SAVITSKY, ESQ.  
17 1 Frank H. Ogawa Plaza, 6th Floor  
Oakland, CA 94612  
18 510.238.6392  
mmcpherson@oaklandcityattorney.org  
19 zsavitsky@oaklandcityattorney.org  
20 SKIKOS CRAWFORD SKIKOS & JOSEPH, LLP  
BY: MARK G. CRAWFORD, ESQ.  
21 One Sansome Street, Suite 2830  
San Francisco, CA 94104  
22 mcrawford@skikos.com  
23  
24  
25  
26

1 APPEARANCES (CONTINUED)  
2 FOR THE DEFENDANTS:  
3 For Johnson & Johnson; Janssen Pharmaceuticals, Inc.;  
4 Ortho-McNeil-Janssen Pharmaceuticals, Inc., n/k/a Janssen  
5 Pharmaceuticals; Janssen Pharmaceutica, Inc., n/k/a  
6 Janssen Pharmaceuticals, Inc.:  
7  
8 O'MELVENY & MYERS LLP  
9 BY: MICHAEL G. YODER, ESQ.  
10 AMY R. LUCAS, ESQ.  
11 STEVE BRODY, ESQ.  
12 AMY LAURENDEAU, ESQ.  
13 CHARLES LIFLAND, ESQ.  
14 1999 Avenue of the Stars  
15 Los Angeles, CA 90067  
16 myoder@omm.com  
17 alucas@omm.com  
18 sbrody@omm.com  
19 alaurendeau@omm.com  
20 clifland@omm.com  
21  
22 For Endo Health Solutions and Endo Pharmaceuticals, Inc:  
23 HUESTON & HENNIGAN, LLP  
24 BY: JOHN C. HUESTON, ESQ.  
25 PADRAIC FORAN, ESQ.  
26 MOEZ M. KABA, ESQ.  
STEPHEN MAYER, ESQ.  
DAVID SARFATI, ESQ.  
JOSH BURK, ESQ.  
KAREN DING, ESQ.  
523 West 6th Street, Suite 400  
Los Angeles, CA 90014  
jhueston@hueston.com  
pforan@hueston.com  
mkaba@hueston.com  
smayer@hueston.com  
dsafarti@hueston.com  
jburk@hueston.com  
kding@hueston.com  
  
ARNOLD & PORTER | KAYE SCHOLER  
BY: SEAN MORRIS, ESQ.  
777 South Figueroa Street, 44th Floor  
Los Angeles, CA 90017-5844  
sean.morris@arnoldporter.com

APPEARANCES (CONTINUED)

For Teva, Cephalon, Watson Laboratories, Inc.; Actavis  
LLC, and Actavis Pharma, Inc. f/k/a Watson Pharma, Inc.:  
MORGAN, LEWIS & BOCKIUS, LLP

BY: ADAM TEITCHER, ESQ.  
COLLIE JAMES, ESQ.  
WENDY WEST FEINSTEIN, ESQ.  
BRIAN ERCOLE, ESQ.

600 Anton Boulevard, Suite 1800  
Costa Mesa, CA 92626-7653  
james.collie@morganlewis.com  
adam.teitcher@morganlewis.com  
wendy.feinstein@morganlewis.com  
brian.ercole@morganlewis.com

For Actavis PLC; Actavis, Inc.; Watson Pharmaceuticals,  
Inc., n/k/a Actavis, Inc.; Watson Laboratories, Inc.;  
Actavis LLC; Actavis Pharma, Inc., f/k/a Watson Pharma,  
Inc.:

KIRKLAND & ELLIS LLP  
BY: DONNA WELCH ESQ.  
KARL STAMPFL, ESQ.  
ZACHARY BYER, ESQ.  
JENNIFER LEVY, ESQ.

300 North LaSalle  
Chicago, Illinois 60654  
donna.welch@kirkland.com  
karl.stampfl@kirkland.com  
zachary.byer@kirkland.com  
jennifer.levy@kirkland.com

(And other appearances as may be found on Clerk's  
Minute Order.)

1	I-N-D-E-X			
2				
				VOIR
3	WITNESS	DIRECT	CROSS	REDIRECT
4			RECROSS	DIRE
5	FOR THE PLAINTIFF:			
6				
7	J. BORDONA	2338		2389
	BY MS. LUCAS		2377	
8	BY MR. STAMPFL		2385	
	BY MR. FORAN		2386	
9				
10	A. LEMBKE	2393		
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	E-X-H-I-B-I-T-S		
	NO.	I.D.	EVD.
1			
2			
3			
	P-CA-000921	Entire Dashboard	2392
4	P-CA-001367		2455
	DEF-CA-102015		2333
5	DEF-CA-102016		2333
6			
7		WITHDRAWN FROM EVIDENCE	
8	ROA 6702	All documents admitted on 5-17-21 are now withdrawn from evidence to include the following:	2333
9			
10	P-CA-000921		
11	JAN-CA-102005		
	JAN-CA-603066		
12	JAN-CA-603067		
	JAN-CA-603068		
13	JAN-CA-602964		
	JAN-CA-602966		
14	JAN-CA-602967		
	JAN-CA-602968		
15	JAN-CA-602969		
	JAN-CA-602970		
16	JAN-CA-602971		
	JAN-CA-602972		
17			
	DEF-CA-101976		
18	DEF-CA-102005		
	DEF-CA-102006		
19	DEF-CA-100099		
	DEF-CA-101954		
20	DEF-CA-102003		
	DEF-CA-102015		
21	DEF-CA-102016		
	DEF-CA-101952		
22	DEF-CA-101953		
	DEF-CA-101959		
23	DEF-CA-101964		
	DEF-CA-101977		
24	DEF-CA-101981		
	DEF-CA-101984		
25	DEF-CA-102000		
	DEF-CA-102001		
26	DEF-CA-102002		

1 FROM SANTA ANA, CALIFORNIA - TUESDAY, MAY 18, 2021

2 MORNING SESSION

3 9:00 A.M.

4 -000-

5

6 (The following proceedings were held via Zoom  
7 with all counsel appearing remotely:)

8

9 THE COURT: Good morning, everybody. We are  
10 back on the record. We are going to start with several  
11 procedural issues.

12 One item from yesterday. We discussed and I  
13 admitted the documents identified in ROA 6702. This was  
14 the document that resulted in further discussion about  
15 how to treat the IQVIA data sets and how they were to be  
16 addressed.

17 On taking a look at the submission, I do not  
18 think it appropriate to have admitted all of the  
19 documents. What the parties agreed was not to object to  
20 admissibility of the data sets. The agreement is  
21 reciprocal regardless of which party chooses to introduce  
22 the evidence.

23 It does not appear to me, looking at these  
24 documents, that these are the sorts of documents that  
25 should simply be admitted untethered to a witness.  
26 Instead, pursuant to what the parties I think intended to



1 agree, if a witness intends to discuss or refer to a  
2 document and the document is then admitted, there would  
3 be no objection.

4 My proposal, therefore, would be to withdraw the  
5 wholesale admission of these documents and instead, as  
6 and when documents are proffered that are on this list,  
7 there would be no objection.

8 Does any party wish to be heard on that issue?

9 MR. PENDELL: Your Honor, yes. I need to go  
10 back and check the transcript, but I think that I did  
11 actually offer the data through Ms. Keller is my  
12 recollection, and I think it was admitted without  
13 objection.

14 THE COURT: Which data, Mr. Pendell? There's a  
15 whole list of databases here.

16 MR. PENDELL: I'm sorry, your Honor. I was  
17 having a speaker problem. I did not hear what you said.

18 THE COURT: Which data are you referring to?  
19 There's a whole list of data sets.

20 MR. PENDELL: I apologize. It was the IQVIA  
21 data specifically.

22 THE COURT: There are approximately ten-plus  
23 different IQVIA data sets identified here. Is it your  
24 recollection that all of these were somehow admitted  
25 through Keller's testimony?

26 MR. PENDELL: No, your Honor. I believe it was

1 three. And I can give you the specific Bates numbers,  
2 and I can go back and, like I said, check that transcript  
3 to verify that it was those three. And I can get  
4 clarification for you by this afternoon if that's okay,  
5 your Honor.

6 THE COURT: Let's do this in the interim, then.  
7 The blanket order that I entered yesterday which was that  
8 everything identified on 6702, ROA 6702, was admitted is  
9 withdrawn. Those documents are not admitted on a  
10 wholesale basis as listed in that document.

11 Documents previously admitted, of course, remain  
12 admitted. And if any witness -- if, through any witness,  
13 counsel intend to introduce any of these identified  
14 documents pursuant to this stipulation, there would be no  
15 objection and they would be admitted. But I'm not doing  
16 a blanket admission of them today.

17 Mr. Pendell, on the ones that you think are  
18 covered, either raise it during trial and we can address  
19 it like that or file something indicating which ones you  
20 believe Ms. Keller properly -- you moved to admit through  
21 Ms. Keller, and I'll confirm that those are indeed  
22 admitted.

23 MR. PENDELL: Your Honor, while we were  
24 speaking, it's been handed to me that it has been  
25 verified -- I apologize. There were actually two that  
26 went in through Ms. Keller, and they are DEF-CA-102015

1 and 016.

2 THE COURT: Both of those are in this list. And  
3 both of those, if not already formally admitted, are  
4 hereby formally admitted. 102015, 102016. Both have the  
5 DEF Bates number.

6 (Whereupon, Defendants' Exhibit Nos.  
7 DEF-CA-102015 and DEF-CA-102016 were received  
8 in evidence.)

9 (Whereupon, exhibits previously admitted as  
10 part of ROA 6702 on 5-17-21 are now withdrawn  
11 from evidence.)  
12 marked for identification.)

13 THE COURT: Also a question on exhibits.  
14 ROA 6812 is the People's amended list of exhibits  
15 admitted during trial on May 3. The list purports to be  
16 documents actually admitted into evidence on May 3. But  
17 commencing on page 5, line 8, there are pages of data  
18 sets that, according to my notes and my clerk's notes,  
19 were not referred to or admitted on that date.

20 I need to understand why they're listed here and  
21 what the party -- what the People had in mind.

22 MS. FITZPATRICK: I apologize, your Honor. I'm  
23 going to have to go pull that with someone and get an  
24 answer for you either by the break or immediately after  
25 lunch.

26 THE COURT: It's ROA 6812, and the question

1 starts on page 5, line 8.

2 MS. FITZPATRICK: Okay.

3 THE COURT: From there to the end, there is a  
4 list -- many of which, just on a very quick review, seem  
5 to mirror some of those in the previous documents we just  
6 discussed, but I certainly don't have a record of them  
7 being admitted on May 3. Just take a look at that, and  
8 let's discuss again when you have a chance.

9 MS. FITZPATRICK: Certainly, your Honor.

10 THE COURT: Picking up yesterday's issues, the  
11 People's bench brief in support of admitting the data  
12 from the Orange County Health Agency report.

13 Are the People ready to address that issue  
14 again?

15 Ms. Fitzpatrick, you're on mute. Was  
16 Mr. Robinson going to cover this?

17 MR. ROBINSON: Your Honor, I don't know if you  
18 can hear me. I am on mute, I think.

19 MS. FITZPATRICK: He was, your Honor. I see him  
20 or at least see his screen.

21 THE COURT: Mr. Robinson, are you with us?

22 MR. ROBINSON: Can you hear me now, your Honor?

23 THE COURT: I can hear you now. Thank you.

24 MR. ROBINSON: Okay. Good, I'm sorry.

25 Really, your Honor, I'd rather not do this at  
26 this time. I think that, you know, we have -- there was

1 one statement by you that you're going to allow us to  
2 have this evidence come in, and I think in some ways  
3 you've changed positions.

4 But I think before we can really figure this all  
5 out, I'd like to move on with other witnesses and  
6 whatnot, your Honor, and then we can discuss this. Part  
7 of me doesn't really want to have to call other witnesses  
8 and whatnot. I do think what the Court said is accurate  
9 in the transcript here I read.

10 But I really would like to wait, your Honor, and  
11 maybe we can discuss this when there's not a potential  
12 witness here waiting to be examined.

13 THE COURT: We'll simply table this issue for  
14 further discussion and no rulings are made with respect  
15 to the request at this time. Before the People rest,  
16 obviously, we'll need to readdress the issue if the  
17 People wish to do so.

18 The admissions issue may be in a similar vein.

19 Do the parties want to table that issue until we  
20 don't have witnesses on deck?

21 MR. STAMPFL: That would be fine with the  
22 Allergan defendants, your Honor.

23 MR. BAKER: That's fine with the People as well.

24 THE COURT: Let's do that. We'll keep that on  
25 second call, so to speak, as well.

26 I did not have anything else of a procedural

1 nature before returning to the witnesses. Was there  
2 anything else from the parties' perspective we need to  
3 address before resuming witnesses testimony?

4 MR. BAKER: Yes, your Honor. Fred Baker for the  
5 People. Just one issue that I briefly raised yesterday  
6 to keep on your Honor's radar.

7 The defendants have listed roughly 45 live  
8 will-call witnesses. As your Honor can see, we're coming  
9 down towards the end of our case. And in order to  
10 facilitate our preparations for crosses, we believe it's  
11 appropriate at this point in time for the defendants to  
12 begin paring back their list so that we can actually have  
13 a real list to work off of.

14 THE COURT: Mr. Baker, I'll return to that  
15 issue. I'm not likely to push it until we are at the  
16 stage where the People rest so that I can appropriately  
17 tell the defendants they now know the scope of the case  
18 that they're meeting and they need to make their, at  
19 least, firmer decisions.

20 So that issue is duly noted, and we will return  
21 to it, but nothing that I think is the right thing to  
22 push today.

23 How many more days of testimony, simply  
24 approximately, are the People anticipating?

25 MS. FITZPATRICK: Your Honor, we anticipate that  
26 we should go through the early part of next week, Monday

1 or maybe into Tuesday at some point, and we will then be  
2 ready to rest our case. We have a few witnesses who are  
3 left and some depositions -- and deposition transcripts  
4 to get into evidence. So we anticipate that the  
5 defendants would be able to begin their case next week.

6 THE COURT: All right. Thank you.

7 Are the People ready with their next witness?

8 MS. McPHERSON: Yes, your Honor. This is Malia  
9 McPherson from the Oakland City Attorney's Office for the  
10 People. The People will call Officer Julian Bordona as  
11 our next witness. And he should be in the waiting room,  
12 if he is not currently on the screen. And I see him now.

13 THE COURT: Madam Clerk, would you swear the  
14 witness, please.

15 THE CLERK: Please raise your right hand.  
16 Mr. Bordona, please raise your right hand.

17 MS. McPHERSON: It looks like there's some  
18 speaker issues. He is generally pretty tech savvy. So I  
19 think if we give him a second.

20 THE CLERK: Where did he go?

21 THE WITNESS: I think I have you, ma'am. Thank  
22 you, ma'am. Apologies.

23 THE CLERK: No problem. Thank you. Let's see.

24 Do you solemnly state that the testimony you  
25 shall give in this matter now pending before this court  
26 will be the truth, the whole truth, and nothing but the

1 truth, so help you God?

2 THE WITNESS: I do.

3 THE CLERK: Please state your name and spell  
4 your last name for the record.

5 THE WITNESS: Julian Bordona, B-O-R-D-O-N-A.

6 THE CLERK: Thank you.

7 \* JULIAN BORDONA \*

8 called as a witness by and on behalf of the plaintiff,  
9 having been first duly sworn, was examined and testified  
10 as follows:

11 THE COURT: Good morning. Thank you.

12 Ms. McPherson, you may continue.

13 MS. MCPHERSON: Thank you, your Honor.

14 \* DIRECT EXAMINATION \*

15 BY MS. MCPHERSON:

16 Q And thank you, Officer Bordona, for being here  
17 this morning. Let's begin.

18 Are you a current employee of the City of  
19 Oakland?

20 A Yes.

21 Q In which City of Oakland department?

22 A The police department.

23 Q And what is you're current position in the  
24 Oakland Police Department?

25 A I'm currently a sworn peace officer assigned to  
26 the Violent Crimes Operations Center.



1           Q     Great. And we'll get to what your work entailed  
2     in Oakland in greater detail in just a few minutes, but  
3     for now how long have you been with the Oakland Police  
4     Department?

5           A     Approximately six and a half, almost seven  
6     years.

7           Q     And have you testified in court before?

8           A     Yes.

9           Q     Approximately how many times?

10          A     I would say anywhere between a dozen to two  
11     dozen.

12          Q     And were all of those times for criminal  
13     matters?

14          A     Yes.

15          Q     And were all of those times with the Oakland  
16     Police Department?

17          A     Yes.

18          Q     And for purposes of this morning, is it okay if  
19     I use the term OPD to refer to the Oakland Police  
20     Department?

21          A     Yes.

22          Q     I'm going to turn now to ask you about your  
23     education and work history briefly.

24                     What was your first position or job as a first  
25     responder?

26          A     That was an EMT, ma'am.

1 Q And what does EMT stand for?

2 A Emergency medical technician.

3 Q Where did you attend EMT school?

4 A Modesto Junior College.

5 Q And after you graduated from EMT school, how  
6 long did you work as an EMT?

7 A Approximately 18 to 24 months.

8 Q And what did you do after that?

9 A I attended paramedic school.

10 Q And did you graduate from paramedic school?

11 A That would have been -- I believe it was July of  
12 2005.

13 Q And was that the same year, 2005, that you  
14 received your paramedic license?

15 A Yes.

16 Q And what training is required to obtain a  
17 paramedic license?

18 A For that there is a classroom portion of  
19 approximately -- I believe it's 320 hours. There is a  
20 clinical portion in a hospital that is approximately 240  
21 hours and then clinical rotations on an ambulance of  
22 anywhere between 480 to 720 hours.

23 Q Thank you.

24 And are you still a licensed paramedic?

25 A Yes.

26 Q And at a high level, please explain the

1 difference between an EMT and a paramedic.

2 A An EMT is essentially an assistant to a  
3 paramedic. Paramedics are the ones administering  
4 intervenous drugs and more invasive procedures for  
5 patient care.

6 Q Where did you work as a paramedic?

7 A Stanislaus County.

8 Q How long did you work as a paramedic in  
9 Stanislaus County?

10 A That would have been approximately 10 years, 12  
11 including the EMT portion.

12 Q And I'm going to turn now just to ask some  
13 questions about your training and background work as a  
14 paramedic. In asking you questions I'm going to use the  
15 term "opioids."

16 Please tell the Court your understanding of that  
17 term so that we can all be on the same page when I'm  
18 using the term "opioids" in my question.

19 A Opioids speaking to either the illicit street  
20 drug use or also to include prescription drugs.

21 Q Okay. Great. And I think you answered this but  
22 just to confirm, when I use the term opioids, you'll  
23 understand that I mean both illicit and prescribed ones?

24 A Yes.

25 Q As part of your paramedic training, were you  
26 trained in identifying and responding to opioid

1 overdoses?

2 A Yes.

3 Q At a high level, what type of training did you  
4 receive to identify the response to opioid overdoses?

5 A Recognition of signs and symptoms along with  
6 what would be described as outlying factors near my  
7 patient.

8 Q Did you receive paramedic training to  
9 distinguish between opioid overdoses and non-opioids  
10 overdoses?

11 A Yes.

12 Q Please describe any training you received as a  
13 paramedic to identify/distinguish between different types  
14 of opioids.

15 A From that it would be understanding the  
16 different trade names that are used in prescribing, along  
17 with the different paraphernalia associated with illicit  
18 use.

19 Q As a paramedic, did you respond to opioid  
20 overdoses?

21 A Yes.

22 Q How frequently?

23 A I would say anywhere from five to ten calls  
24 within a month period.

25 Q And as a paramedic responding to calls, which  
26 types of opioids did you encounter?

1           A       Everything from a prescription to include  
2   fentanyl, Dilaudid, things of the such, up to heroin use  
3   via intravenously or through nasal use.

4           Q       How often as a paramedic did you have to  
5   distinguish between different types of drug overdoses to  
6   inform your response as a paramedic?

7           A       That would be any time there was an overdose  
8   patient, be it accidental or intentional.

9           Q       And how frequently, if you had to estimate?

10          A       Including the accidental, I would put that  
11   anywhere from 10 to 15 in a month period.

12          Q       And based on your training and field experience  
13   as a paramedic, what signs and symptoms would you look  
14   for as signs of an opioid overdose?

15          A       In order to determine from head to toe, you  
16   would be looking at pupillary response, or how the pupils  
17   respond to light, whether they're equal, the size of the  
18   pupil; along with skin signs, if somebody is pale, cool  
19   to the touch, diaphoretic or what's referred to as  
20   sweaty; to include respirations, determining whether they  
21   are below the acceptable level to sustain life; along  
22   with the cognitive awareness of the patient.

23          Q       And to confirm, those are signs and symptoms you  
24   would look for to confirm an opioid overdose; is that  
25   correct?

26          A       Yes.

1           Q     Based on your training and field experience as a  
2     paramedic, what other nonmedical signs would you look for  
3     in identifying an opioid overdose?

4           A     With that, we would also expand our  
5     visualization of the patient to include the immediate  
6     scene in their area. With that, we would be looking for  
7     prescription bottles that can lead us to understanding  
8     what this person may have taken, loose pills nearby.  
9     Also any kind of illicit paraphernalia, be it pipes,  
10    syringes, lighters, spoons with residue, anything of the  
11    such.

12          Q     What was the primary method you used in response  
13    to opioid overdoses as a paramedic?

14          A     Would that be referring to the treatment  
15    modality?

16          Q     Yes. Thank you.

17          A     That would be Narcan, or what's also referred to  
18    as naloxone.

19          Q     And I know that we have had testimony already in  
20    this case, but just so the Court understands your  
21    understanding, what is Narcan?

22          A     In the most simple way to define it, it is an  
23    antidote for opioid overdose.

24          Q     I'm going to transition now to asking about your  
25    career in law enforcement.

26                   From your career as a paramedic, what was your

1 first position when you transitioned to law enforcement  
2 work?

3 A As a police officer trainee in the Oakland  
4 Academy.

5 Q And to confirm, did you have any transitional  
6 work from your paramedic that also incorporated law  
7 enforcement work?

8 A I did spend approximately four years assigned to  
9 a SWAT team in the city of Ceres as a tactical paramedic.

10 Q And so then you previously said you applied to  
11 be a police officer; is that correct?

12 A Yes.

13 Q And what was your first position with OPD?

14 A That would have been the police officer training  
15 position.

16 Q And was that part of the police academy?

17 A Yes.

18 Q When did you graduate from the Oakland Police  
19 Academy?

20 A July 3rd, 2014.

21 Q And what was your first sworn role with OPD?

22 A I would have been assigned to the patrol  
23 division.

24 Q And approximately how long were you assigned to  
25 the patrol division?

26 A That would have been approximately a year and a

1 half.

2 Q What were your primary duties as a patrol  
3 officer in the patrol division?

4 A Primary duties was responding to calls for  
5 service, be it generated by 911 use or flag-downs with  
6 bystanders that were saying we need help here, to include  
7 proactive patrol in areas that are determined to be  
8 problematic in our area.

9 Q And when you were a patrol officer, how much of  
10 your time while on duty did you spend in the Oakland  
11 community?

12 A Approximately 90 percent of my time.

13 Q And when you were out in the community, describe  
14 further what your day-to-day looked like as a patrol  
15 officer.

16 A Typically, it will start at the beginning of  
17 shift with a briefing, lasting anywhere from 15 to 20  
18 minutes, describing events prior to our shift, events  
19 that were determined to be happening during our shift,  
20 and any other intelligence information that we needed to  
21 have to be able to effectively police our community. And  
22 in addition to that, also forecasting any training that  
23 would be happening either that day or the following day.

24 Q And I think you described the shift change.

25 Could you further describe what the rest of your  
26 day-to-day looked like as a patrol officer.



1           A       From there we would obtain our vehicles which we  
2       were assigned, do our checkout, make sure we had all of  
3       our equipment, and then proceed to answer what we call  
4       call for service or anybody that has called 911 that has  
5       a scene on what we call our board or the computer system  
6       that dispatches.

7                   From there, once we handled all the calls that  
8       were in our beat, we were able to focus on proactive  
9       policing and be able to assist our community resource  
10      officers that have identified problems in the beat to  
11      which we were assigned.

12          Q       What was your next sworn role with OPD?

13          A       From there, I tested and was accepted into our  
14      crime reduction team.

15          Q       Do you still work on the crime reduction team?

16          A       Yes, under a different name.

17          Q       And I think you mentioned this earlier. What is  
18      that new name?

19          A       Approximately two months ago we transitioned our  
20      name to become the Violent Crimes Operations Center.

21          Q       And describe at a high level the activities of  
22      the Violent Crime Operations Center.

23          A       We handle all of the enforcements related to the  
24      more violent crimes in the city. Typically any crime  
25      that results from gunfire or gang activity is what we  
26      respond to. We are the more -- boots on the ground, if

1     you will, for our investigations division with our  
2     investigators, who are also referred to as detectives, in  
3     order to apprehend the more violent of the criminals in  
4     the city of Oakland.

5           Q     And if I use the acronym VCOC, will you  
6     understand that to mean the Violent Crime Operations  
7     Center?

8           A     Yes.

9           Q     As a member of the VCOC, how much of your time  
10    do you spend in the Oakland community?

11          A     Anywhere from 70 to 80 percent of my time.

12          Q     When you are out in the Oakland community,  
13    describe what your experience of day to day looks like.

14          A     Typically, we are responding to the more violent  
15    and affected areas of Oakland due to gang activity and  
16    firearm-related crimes. We can conduct anything from  
17    plainclothes surveillance to include any kind of  
18    narcotics sales that are related to the gang activity,  
19    the firearms trafficking, along with conducting search  
20    warrant services and arrest warrant service.

21          Q     And please describe at a high level any special  
22    or individual responsibilities you have in addition to  
23    your work in the VCOC.

24          A     In addition, I'm also assigned to our training  
25    division. I am a member of the training cadre for first  
26    aid and CPR. I currently am the subject matter expert

1 for the department for medicine along with conducting  
2 in-service training, academy training for first aid, CPR.  
3 Excuse me. With that, I also offer policies and  
4 procedures that pertain to medicine, and I am also the  
5 liaison for our Narcan program.

6 Q Thank you. I'll turn in a minute to ask you  
7 some more questions about the Narcan program.

8 You described earlier that, in your paramedic  
9 training, you were trained to identify and distinguish  
10 between different types of opioids.

11 For any of your positions at OPD, were you also  
12 trained to identify and distinguish between different  
13 types of opioids?

14 A Yes.

15 Q And which position did you receive that training  
16 for?

17 A That was during the academy as a police officer  
18 trainee.

19 Q What type of training did you receive?

20 A That was identification and recognition of signs  
21 and symptoms of overdoses.

22 Q Did you receive any nonmedical training in the  
23 academy about identifying and distinguish between types  
24 of opioids?

25 A Yes.

26 Q And what type of nonmedical training did you

1 receive?

2 A That was identification of paraphernalia used in  
3 order to allow a subject to use illicit drugs along with  
4 the recognition and identification of the drugs  
5 themselves.

6 Q I'm going to turn now to background and what  
7 you've observed regarding opioids in your work in  
8 Oakland.

9 Based on your personal observations in the seven  
10 or so years that you've been an OPD peace officer, have  
11 you observed an impact of opioids on the Oakland  
12 community?

13 A Yes.

14 Q What have you personally observed reflecting an  
15 impact of opioids on the Oakland community?

16 A I've seen a substantial increase in just the  
17 paraphernalia you see on the street. Initially when I  
18 first began working as a peace officer, it was more  
19 focused into just general areas of known drug use and  
20 drug trafficking. And over the course of the last  
21 several years, I've seen it explode into affecting almost  
22 all areas of Oakland that I've encountered.

23 Q Please describe any problems or effects  
24 associated with opioid use that you've observed in the  
25 community.

26 A So one of the things that is most prolific to me

1 has been identifying that paraphernalia near my schools,  
2 near my churches, various places that you would not  
3 expect to see paraphernalia, especially to the degree  
4 that we have seen it.

5 Q And in the course of your duties as a peace  
6 officer, where have you observed these impacts of opioids  
7 on the community?

8 A Citywide.

9 Q I'm just going to break down some of those  
10 observations a little bit further.

11 In the course of your duties as a peace officer  
12 in Oakland, have you personally observed instances of  
13 opioid use?

14 A Yes.

15 Q What types of opioids have you observed being  
16 used?

17 A I have observed --

18 MS. LUCAS: Objection, your Honor. This witness  
19 has not been designated as an expert.

20 THE COURT: And what part of the question does  
21 the objection pertain to?

22 MS. LUCAS: The extent that he's offering his  
23 opinion on what types of opioids he's observing, then we  
24 would have an objection; to the extent he's only  
25 describing factual matters, we don't.

26 MR. FORAN: And if I could, your Honor, it lacks

1 foundation to offer testimony about what types of opioids  
2 he's observed being used.

3 THE COURT: The objection is partly sustained to  
4 this extent: The witness can describe what he observed  
5 and -- we'll start there. The witness can describe what  
6 he observed. Whether opinions flow from that, we'll tell  
7 from the questions and the answers.

8 Please proceed.

9 THE WITNESS: Thank you, your Honor.

10 One of the things I have observed has been users  
11 of opioids using a pill bottle that contains coins along  
12 with pills themselves that they will shake in order to  
13 break the pill form into a powder. From that powder,  
14 they are able to place it into a spoon and melt it down  
15 using a lighter, draw it up via syringe. I've also  
16 observed subjects injecting opioids directly into their  
17 venous system.

18 BY MS. MCPHERSON:

19 Q And why do you believe you observed opioid use  
20 in those instances?

21 A Due to the fact that this was an area that was  
22 known for the trafficking of such, along with the signs  
23 and symptoms that followed their use.

24 Q And in the course of your duties as a police  
25 officer, what types of opioids specifically do you think  
26 that you've observed being used?

1           A       I would speak to heroin along with any kind of  
2     pill form that may have been obtained.

3           Q       And how often have you observed instances of  
4     what you believe to be opioid use in Oakland?

5           MS. LUCAS:  Objection, your Honor; foundation  
6     and improper opinion.

7           THE COURT:  Overruled.

8           You may answer.

9           THE WITNESS:  Could you repeat the question,  
10    ma'am?

11          BY MS. MCPHERSON:

12          Q       Yes.  Give me one second.

13                 How often have you observed instances of what  
14    you believed to be opioid use in Oakland?

15          A       Several times.  I would put it well over two to  
16    three dozen.

17          Q       And in the course of your duties as a peace  
18    officer in Oakland, have you observed instances of what  
19    you believe to be opioid overdoses in the community?

20          A       Yes.

21          Q       What have you observed personally regarding  
22    opioid overdoses in the community?

23          A       Speaking to that, I have observed subjects  
24    falling asleep during questioning.  I have observed  
25    subjects that were unconscious during time frames and  
26    situations where being unconscious is inappropriate.

1 Q And how often have you personally observed  
2 opioid overdoses in Oakland?

3 A Five to six on my own response.

4 Q In the course of your duties as a peace officer  
5 in Oakland, have you observed opioid use paraphernalia in  
6 the community?

7 A Yes.

8 Q What type of paraphernalia associated with  
9 opioids have you observed?

10 A Empty and discarded pill bottles, along with  
11 syringes, spoons. A common thing that is often missed by  
12 the layperson to be identified as such are -- the best  
13 way to describe it are, like, the tea light candles, how  
14 they come in a metal tin. Those are often given out at  
15 clean needle dispensaries in order for somebody to draw  
16 up in a more safe manner what they use. Those are often  
17 discarded along with the blue rubber tourniquets that are  
18 handed out in the same kits.

19 Q About how often do you observe paraphernalia  
20 associated with opioid use?

21 A Every day I step out of the police department.

22 Q In the past seven or so years in the course of  
23 your duties as a peace officer, have you observed any  
24 changes or trends in opioid prevalence in the community?

25 MS. LUCAS: Objection, your Honor; improper  
26 opinion, foundation.



1 THE COURT: Sustained as to opinion.

2 MS. McPHERSON: May I be heard briefly, your  
3 Honor?

4 THE COURT: Yes.

5 MS. McPHERSON: I believe I just asked him what  
6 he had personally observed regarding changes and trends,  
7 a yes-or-no question. And he should be able to answer  
8 based on his percipient witness testimony.

9 THE COURT: You're not asking him for a yes or  
10 no, are you?

11 MS. McPHERSON: That was the first question I  
12 asked him.

13 THE COURT: Just a moment.

14 The objection to the question as framed is  
15 sustained. You may rephrase your question.

16 MS. McPHERSON: Thank you, your Honor.

17 BY MS. McPHERSON:

18 Q Officer Bordona, in the course of your duties as  
19 a peace officer, have you observed any changes or trends  
20 in opioid impacts in the community?

21 MS. LUCAS: Same objection.

22 THE COURT: The objection is overruled.

23 BY MS. McPHERSON:

24 Q I can repeat the question if that would be  
25 helpful as well.

26 A Yes, ma'am.

1           Q     In the course of your duties as a peace officer,  
2     have you observed any changes or trends in opioid impacts  
3     in the community?

4           A     Yes.

5           Q     And what have you observed regarding changes or  
6     trends in opioid impacts in the community?

7                   MS. LUCAS: Same objection.

8                   THE COURT: Overruled.

9                   THE WITNESS: What I've observed has been an  
10    explosion, if you will, of the amount of paraphernalia  
11    that is observed throughout the city.

12           BY MS. McPHERSON:

13          Q     Does the prevalence of opioids in the community  
14    affect your work as a peace officer?

15          A     Yes.

16          Q     And how does the prevalence of opioids in the  
17    community affect your work as a peace officer?

18          A     It affects it on the level of officer safety due  
19    to our requirement during searches to place hands in the  
20    pockets. Oftentimes this is where needles are kept, be  
21    it capped or uncapped, along with simple things as  
22    tripping and falling in the street. If there's an  
23    uncapped needle in the gutter, which there typically is,  
24    that can become an officer safety issue as well.

25          Q     Thank you. I'm going to turn now to the Narcan  
26    program that you mentioned earlier. I believe you

1 mentioned -- said the name -- can you please tell the  
2 Court the name of the program?

3 A Oakland Police Department Narcan Program.

4 Q And who created this program?

5 A It was a cocreation between myself and Josh  
6 Luftig, a PA that is at Highland Hospital -- or Alameda  
7 County Hospital.

8 Q And you mentioned that Josh Luftig is a PA.  
9 Could you describe further who Josh Luftig is?

10 A He is a PA that operates out of their emergency  
11 department and is also the coordinator for the California  
12 Bridge program.

13 Q What is the California Bridge program?

14 A The California Bridge program is a treatment  
15 modality and resource for those wishing to stop the  
16 opioid addiction that they have.

17 Q And you said that you cocreated the program.  
18 What was your role in creating the program specifically?

19 A Mine was the liaison, if you will, from the  
20 Oakland Police Department along with making sure that the  
21 program itself fit within the policies and procedures of  
22 our department.

23 Q And at a high level, please explain the OPD  
24 Narcan program.

25 A The OPD Narcan program placed Narcan into the  
26 hands of the officers on the streets along with the

1 refresher training on its use and identification of  
2 opioid overdoses.

3 Q Which part of the OPD Narcan program has already  
4 been implemented?

5 A We have implemented Phase I that is currently  
6 operational and the -- what I can refer to as a pilot  
7 program for Phase II.

8 Q And briefly what is Phase I?

9 A Phase I is the Narcan being in the hands of the  
10 officers on the street along with the training for  
11 recognition of overdose and treatment.

12 Q And -- excuse me. Briefly, what is Phase II?

13 A Phase II is the proactive deployment of Narcan  
14 into the -- in the hands of individuals that are  
15 determined to be, quote, at risk.

16 Q Which part of the OPD Narcan program have you  
17 not yet implemented?

18 A Phase III.

19 Q And what is Phase III?

20 A Phase III would be what could be described as a  
21 leave-behind program. To further explain, if an officer  
22 were to respond to an opioid overdose and either they or  
23 other first responders used Narcan, that officer would be  
24 instructing the -- basically the cohabitants of where  
25 this patient lived on recognition of signs and symptoms  
26 along with leaving Narcan with them should this person

1 overdose again in the future.

2 Q And from your perspective as one of the creators  
3 of this program, why was it important for officers to be  
4 trained and able to carry Narcan?

5 A For me, it was knowing that it can have an  
6 effect and actually be out there saving lives. To me, it  
7 is no different than an officer carrying a tourniquet.  
8 Gunshot wounds don't want to happen or don't need to  
9 happen, just like overdoses don't need to happen. But  
10 they are easily fixed.

11 Q And when did you begin this program?

12 A That would have been end of October 2019.

13 MS. McPHERSON: And, your Honor, I'm going to  
14 pull up a document now. And I believe Evan is our tech  
15 person right now.

16 Evan, if you could please pull up exhibit  
17 labeled P-CA-001737. And --

18 MS. LUCAS: Your Honor, the defense has an  
19 objection to this document.

20 THE COURT: What's the objection?

21 MS. LUCAS: Lacks foundation. It contains  
22 hearsay and double hearsay. It's irrelevant to Phase I.  
23 And 352 as well as improper opinion.

24 THE COURT: Just a moment, please.

25 MS. McPHERSON: Your Honor, let me know if you  
26 would like me to respond at this time.

1 THE COURT: Just a moment, please.

2 I have the document on my screen. It has not  
3 yet sought to be admitted. At the moment, all that has  
4 happened is the witness has been referred to the  
5 document.

6 The objection to the document simply being  
7 referred to is overruled. You may continue your  
8 objections on a question-by-question basis as  
9 appropriate. Let's see what the questions are.

10 Counsel may continue.

11 MS. MCPHERSON: Thank you, your Honor.

12 BY MS. MCPHERSON:

13 Q Officer Bordona, you have the document in front  
14 of you; is that correct?

15 A Yes.

16 Q And you've had an opportunity to look through  
17 it?

18 A Yes.

19 Q Do you recognize this document?

20 A Yes.

21 Q And what is this document?

22 A This is a PowerPoint utilized for training  
23 officers on the Narcan program.

24 Q Did you create this PowerPoint?

25 A Yes.

26 Q And what was the purpose of this PowerPoint?

1           A       The purpose was to have a visual representation  
2       of my training. Due to my P.O.S.T. certified instructor  
3       certification, I have to teach to the different  
4       learning -- learning modalities that an adult can use,  
5       one of these being visual. And that speaks to the visual  
6       side.

7           Q       So your training as an OPD officer has had  
8       additional components of materials beyond what was on  
9       this slide?

10          A       Yes.

11          Q       And were these materials -- this PowerPoint  
12       document what was, in fact, used to train officers in the  
13       OPD Narcan program?

14          A       Yes.

15          Q       Is this document maintained in OPD's records?

16          A       Yes.

17          Q       And where is this document maintained?

18          A       This is currently accessible from all sworn  
19       members through the PowerDMS program.

20          Q       And just for the Court, what is the PowerDMS  
21       program?

22          A       That is an archive of all of the training -- the  
23       training PowerPoints, along with policies, procedures,  
24       department general orders, chief's special orders.  
25       Pretty much any piece of paperwork that flows through the  
26       department that can be referred to as training or policy

1 is located in this database.

2 Q And this is the version that you used, the  
3 Version 2.4 that's labeled on the first slide here, is  
4 this the version that you used to train OPD officers in  
5 the Narcan program?

6 A Yes.

7 MS. MCPHERSON: Your Honor, I'd move to have  
8 this Exhibit P-CA-001737 admitted into evidence.

9 MS. LUCAS: Objection, your Honor. There is no  
10 foundation that this is, in fact, a business record  
11 underneath the evidence code. It also contains hearsay,  
12 double hearsay, and there's no foundation for many parts  
13 or actually all of the parts of the contents of the  
14 document.

15 THE COURT: What's the purpose of moving its  
16 admission?

17 MS. MCPHERSON: Your Honor, we understand your  
18 position in this case on the narrow business records  
19 exception. To save the time of going slide by slide and  
20 laying a foundation for each slide, I would admit it for  
21 a nonhearsay purpose. We are admitting it for -- to  
22 prove what OPD officers were, in fact, trained with for  
23 the OPD Narcan program.

24 The defendants have also put at issue in this  
25 case whether the jurisdictions have taken any effort in  
26 response to the opioid crisis. So we're putting it in



1 evidence to -- as well as in to showing what the  
2 jurisdictions, specifically Oakland, did in response to  
3 the opioid problems in the community.

4 MS. LUCAS: I also have a relevance objection,  
5 your Honor, to Phase I.

6 MS. McPHERSON: And, your Honor, this is  
7 directly relevant to Phase I. It goes to the scope of  
8 the problem. We are not admitting it to show what  
9 resources or further actions would be needed, which would  
10 be a Phase II issue. We're admitting it to show the harm  
11 and the existence of the public nuisance in the city of  
12 Oakland.

13 MS. LUCAS: May I be heard briefly, your Honor?

14 THE COURT: Yes.

15 MS. LUCAS: To the extent the relevance is the  
16 scope of the problem, that directly implicates our  
17 hearsay objection because the only parts of this  
18 presentation that could possibly be relevant to the scope  
19 of the problem contains hearsay for which there's also no  
20 foundation.

21 THE COURT: Ms. McPherson, if you are not  
22 admitting it for the truth of its contents, then it  
23 proves only that the Oakland Police Department has a  
24 Narcan training program. The officer has testified to  
25 that. What is the relevance of this document beyond  
26 that?

1 MS. McPHERSON: Your Honor, I believe it also --  
2 that Officer Bordona testified that this is what officers  
3 were, in fact, trained on. So it shows the materials  
4 that officers were trained on. It lays foundation for  
5 later testimony as well regarding what officers observed  
6 and what Officer Bordona has observed in the city of  
7 Oakland and provides foundation for that.

8 And I think just the extent of the training  
9 materials are relevant to the scope of the problem and  
10 what officers were trained in.

11 THE COURT: I don't think the People can have it  
12 both ways. If it is not offered for the truth of its  
13 contents, all it establishes is that Oakland Police  
14 Department has a Narcan training program, to which the  
15 officer has already testified.

16 The objections to the admission of the document  
17 itself are sustained.

18 MS. McPHERSON: Thank you, your Honor.

19 Evan, you may take the document down.

20 BY MS. McPHERSON:

21 Q Officer Bordona, in whole, when do you train  
22 Oakland police officers to use Narcan?

23 A Sorry. Could you repeat the question?

24 Q Yes. In whole, when do you train OPD officers  
25 to use Narcan?

26 A When they have recognized or determined to have

1 recognized an opioid overdose.

2 Q Are OPD officers trained to use Narcan to  
3 respond to all types of drug overdoses?

4 A No.

5 Q Are OPD officers trained to use Narcan to revive  
6 someone who has overdosed exclusively on  
7 methamphetamines?

8 A No.

9 Q Are OPD officers in this program trained to use  
10 Narcan as a treatment, a diagnostic tool, or both?

11 A Typically, it can be used for both.

12 Q And can you explain that further?

13 A Due to the fact that Narcan in and of itself is  
14 utilized and only works on opioid overdoses, if you have  
15 a patient that is unconscious, unresponsive, with  
16 decreased respirations and you give them Narcan, when  
17 they wake up, you have, in fact, determined that an  
18 opioid is what they overdosed on.

19 Q What categories of OPD officers were trained  
20 using the materials that we saw but were not admitted?

21 A Any officer that leaves the police station in  
22 the capacity of being on the street in patrol.

23 Q And do you have an estimate of how many  
24 employees in OPD received Narcan training?

25 A Anywhere between 250 to 300.

26 Q And why do you think, in your role as the

1 creator of the program, there was a need to train that  
2 many OPD employees in Narcan administration?

3 A Due to the fact, through my experience in  
4 talking with other officers, if you are, in fact, a  
5 police officer that works in the city of Oakland, you  
6 will see an overdose at some point.

7 Q Who above you in the chain of command supported  
8 the OPD Narcan program?

9 A Everyone from the chief at the time down.

10 Q And you mentioned the chief. Describe any role  
11 the chief played in authorizing the OPD Narcan program.

12 A That would have been in July of 2019. I was  
13 conducting an -- a meeting, if you will, with our chief  
14 and our top brass -- basically, assistant chief, deputy  
15 chiefs -- explaining my vision for this program and the  
16 Oakland Police Department. From there the chief, Anne  
17 Kirkpatrick, tasked me as being the person in charge for  
18 this program.

19 Q Where was the initial Narcan for the program  
20 obtained?

21 A That was through a donation from Highland  
22 Hospital and the California Bridge program.

23 Q Did you obtain Narcan from other sources for the  
24 program?

25 A Yes.

26 Q And I will get to that. I'm going to again pull

1 up the document. Just at this point pulling it up, not  
2 seeking to admit it.

3 So, Evan, please pull up P-CA-001087.

4 MS. LUCAS: Your Honor, we also have objections  
5 to this document on foundation, hearsay, double hearsay,  
6 relevance to Phase I --

7 THE COURT: Ms. Lucas, I do not need to hear  
8 from you on a document unless and until anyone seeks to  
9 admit it. Please hold your objections until we -- I have  
10 some idea why the document is being proffered. That a  
11 document is being referred to is not in itself  
12 objectionable except in rare cases. If it's a rare case,  
13 by all means. But please otherwise hold your objection  
14 until I understand what the questions are.

15 What is this document number again, please?

16 MS. MCPHERSON: This is document -- Exhibit  
17 Number P-CA-001087.

18 THE COURT: Please proceed.

19 MS. MCPHERSON: Thank you.

20 BY MS. MCPHERSON:

21 Q Officer Bordona, do you have the document in  
22 front of you?

23 A Yes.

24 Q Do you recognize this document?

25 A Yes.

26 Q What is this document?

1           A       This is my -- the grant application to obtain  
2       further restock and supply of Narcan.

3           Q       And I think you started to answer there in  
4       saying that this was your document. Did you create this  
5       grant application?

6           A       I coauthored, if you will, with Josh Luftig.

7           Q       Did you submit this grant application?

8           A       Yes.

9           Q       And did you submit this grant application on  
10      behalf of the Oakland Police Department?

11          A       Yes.

12          Q       What approval did you receive to submit this  
13      grant application?

14          A       This would have been approval through the -- my  
15      immediate chain of command on the training section side  
16      of my chain of command.

17          Q       And to submit this document on behalf of the  
18      Oakland Police Department, did it need to represent the  
19      views of the Oakland Police Department?

20          A       Yes.

21                 MS. McPHERSON: Your Honor, move to have this  
22      document admitted into evidence.

23                 MS. LUCAS: Your Honor, we object to the  
24      foundation of this document, and, in particular, those  
25      first four paragraphs contain hearsay, double hearsay for  
26      which he has no foundation, and improper opinion. It's

1     also irrelevant to Phase I. He's already testified that  
2     the Oakland Police Department has a Narcan program.

3             THE COURT: For what purpose is the document  
4     being proffered?

5             MS. McPHERSON: For the -- for several  
6     nonhearsay purposes.

7             First, proving the police department applied for  
8     a Narcan grant, which is separate than just having a  
9     Narcan program as Officer Bordona had previously  
10    testified.

11            It also represents the position of the Oakland  
12    Police Department. It's not being admitted for the truth  
13    of that but just admitted as to the position of the  
14    Oakland Police Department when it applied for the Narcan  
15    and with respect to what it viewed as the need to respond  
16    to the scope of the opioid crisis.

17            Officer Bordona is here testifying as a fact  
18    witness, and this document is a document that he can  
19    authenticate and has authenticated and laid foundation  
20    for regarding the views of the Oakland Police Department.

21            MS. LUCAS: May I be heard briefly?

22            THE COURT: Yes.

23            MS. LUCAS: There's been no testimony about  
24    where this data came from. In fact, at his deposition,  
25    he testified that somebody else gave it to him. And to  
26    the extent this is being offered for Oakland police's

1 understanding of the issue, that is, in fact, for the  
2 truth.

3 MS. MCPHERSON: Your Honor, may I respond to  
4 that?

5 THE COURT: Just a moment, please.

6 Ms. McPherson, what's not clear to me is the  
7 same confusion, if you will, between what the People say  
8 that they are proffering this for and what the People, in  
9 fact, mean to proffer this for.

10 If it is not being offered for the truth of its  
11 contents, what is its relevance beyond establishing that  
12 the City of -- the Oakland Police Department approved --  
13 applied for and received a grant to support the provision  
14 of Narcan, to which the officer has already testified?  
15 What does the document add to that testimony if it's not  
16 admitted for the truth of its contents?

17 MS. MCPHERSON: Your Honor, it also speaks to  
18 the need for Narcan at the time, the amount of Narcan  
19 that the department is seeking. I don't think that the  
20 specifics at issue -- we're not seeking to admit this  
21 document for the part that Ms. Lucas has concerns with,  
22 but it simply goes to what defendants have repeatedly put  
23 at issue in this case, which is that the jurisdictions  
24 themselves do not have a belief that there's an opioid  
25 problem and have not responded as if there's an opioid  
26 problem. And this document goes beyond simply that they



1 applied for a grant, and it goes to the views as written  
2 down and formally submitted in a grant application of the  
3 Oakland Police Department.

4 I believe the views of the Oakland Police  
5 Department are different than the truth of the matter of  
6 those views.

7 THE COURT: The objection to the admission of  
8 the document is sustained. When the witness is  
9 cross-examined on this issue or the earlier issue of the  
10 Narcan training, if there is something in the  
11 cross-examination that makes the contents somehow  
12 additionally relevant, the issue of the admission of the  
13 documents may be revisited.

14 But at the moment, since the proffer is that  
15 they are not offered for the truth of their contents,  
16 they have no other relevance. And both because the  
17 document itself contains hearsay and because, under a 352  
18 analysis, admitting the entire document to establish a  
19 fact to which the witness has already testified is more  
20 likely to be confusing rather than helpful, the objection  
21 is sustained. You may revisit the question on cross if  
22 that becomes appropriate.

23 Please proceed.

24 MS. McPHERSON: Thank you, your Honor.

25 And, Evan, if could you zoom in. I want to look  
26 at the first sentence of the document.

1 BY MS. McPHERSON:

2 Q I will read the first sentence. And, Officer  
3 Bordona, you can make sure that I am reading it  
4 correctly.

5 It says, "The Oakland Police Department (OPD) is  
6 an urban police force in Oakland, California, in Alameda  
7 County, a community highly impacted by the opioid  
8 crisis."

9 Do you see that sentence?

10 A Yes.

11 MS. LUCAS: Objection, your Honor. The  
12 objection was sustained.

13 THE COURT: Assuming the witness confirms that  
14 he can see that or heard what you read, what's the  
15 question, counsel?

16 MS. McPHERSON: I am going to ask him to -- I  
17 didn't understand your ruling to mean that I could not  
18 ask any further documents about this exhibit, even if it  
19 was not admitted into evidence.

20 THE COURT: That's not a response to my  
21 question.

22 What is your question based upon what you have  
23 just read to the witness?

24 MS. McPHERSON: Yes, your Honor, and apologies.  
25 My question is going to be whether he wrote it, lay a  
26 foundation for that sentence, and whether that is his

1 belief as well.

2 MS. LUCAS: In which case, that's improper  
3 opinion.

4 THE COURT: In the interest of time, the Court  
5 interposes its own objection. I thought the witness  
6 expressly testified that he believes that there is an  
7 opioid issue in Oakland that he has been addressing for  
8 years.

9 What does this add other than an opportunity for  
10 objection?

11 MS. McPHERSON: I can move on, your Honor.

12 THE COURT: Please.

13 MS. McPHERSON: Thank you.

14 And, Evan, you may take the document down.  
15 Thank you.

16 BY MS. McPHERSON:

17 Q Officer Bordona, approximately -- approximately  
18 how many times did OPD officers use Narcan in the initial  
19 months of the program?

20 A From the beginning of November until the end of  
21 the year -- so December 31st -- there were 20 deployments  
22 or uses of Narcan.

23 Q Was this level of Narcan usage surprising to  
24 you?

25 A It was.

26 Q Did you track whether Narcan administrations

1     were successful?

2           A     Yes.

3           Q     And are you able to approximate what percentage  
4     of OPD Narcan administration were successful since the  
5     beginning of the program?

6           A     16 reversals.

7           Q     And what percentage, would you approximate?

8           A     Approximately 80 percent.

9           Q     And what is your understanding of the term  
10    "successful" here?

11          A     Meaning a subject --

12                THE COURT:   Ms. McPherson, how is this relevant  
13    to Phase I?

14                MS. MCPHERSON:   Your Honor, I can move on.   The  
15    People believe that the scope of the problem and the  
16    success rate through the Narcan reversal show the  
17    existence of the scope of the problems with respect to  
18    opioid overdoses in the community.

19                THE COURT:   20 uses is relevant, and I have no  
20    issue with that.   Whether or not Narcan was successful, I  
21    do not understand how that's in any way relevant to  
22    Phase I as opposed to Phase II.

23                Please move on.

24                MS. MCPHERSON:   Thank you, your Honor.

25           BY MS. MCPHERSON:

26           Q     Officer Bordona, please explain whether the OPD

1 Narcan program is the only Narcan program in Oakland.

2 A It is not.

3 Q What other programs deploy Narcan?

4 A All ambulances have Narcan available for their  
5 paramedics to use, along with the Oakland Fire  
6 Department, or OFD, also has Narcan available for their  
7 paramedics to utilize.

8 Q And describe the typical circumstance when you,  
9 as an OPD officer, would respond to an opioid overdose  
10 rather than those other entities or departments.

11 A Common times will be what is referred to as a  
12 flag-down, which refers to a citizen or subject that  
13 observes a black-and-white police car in the vicinity  
14 waves their hands to get our attention and then directs  
15 us to a subject that is either unconscious or  
16 nonresponsive.

17 Q During the COVID-19 pandemic, has the OPD Narcan  
18 program continued?

19 A It has with -- with less ferocity, if you will.

20 Q Can you explain that further, what you mean?

21 A With that, when the pandemic first impacted our  
22 department, we scaled back our call activity to minimize  
23 contact outside of essential calls for service.

24 Q And have you continued to track Narcan use  
25 during the pandemic?

26 A To the best of my ability, yes.

1           Q     Describe any continued impact of opioids in your  
2     day-to-day work since the OPD Narcan program began.

3           A     To speak to the impact to my work, it has made  
4     it difficult due to the fact that I am not -- I have  
5     other duties as well. This is a -- for lack of a better  
6     term, a secondary assignment from my primary.

7           Q     And what do you see now when it comes to the  
8     impact of opioids on the community during the pandemic?

9           MS. LUCAS: Objection; relevance and improper  
10    opinion.

11          THE COURT: Overruled.

12          You may answer.

13          THE WITNESS: Could you restate the question,  
14    ma'am.

15          BY MS. McPHERSON:

16          Q     Of course. What do you see now when it comes to  
17    the impact of opioids on the community during the  
18    pandemic?

19          A     From the best I can gather, it has not changed  
20    it. There may be an increase. However, I'm unable to  
21    assess that directly.

22          MS. McPHERSON: Thank you, Officer Bordona. No  
23    further questions on direct at this time.

24          THE COURT: Thank you, Ms. McPherson.

25          Cross-examination of the officer?

26          MS. LUCAS: Thank you, your Honor.

1                                   \* CROSS-EXAMINATION \*

2           BY MS. LUCAS:

3           Q     Officer Bordona, my name is Amy Lucas. I  
4     represent Janssen and Johnson & Johnson. I think we can  
5     make this fairly short.

6                   You talked about your experiences treating  
7     people who had overdosed, and you talked a little bit  
8     about clues that you saw at the scene. But even if you  
9     see clues at the scene, there's no way for you to say  
10    with any certainty what substance someone overdosed on,  
11    correct?

12          A     Correct.

13          Q     Even if you recognize signs and symptoms of an  
14    opioid overdose, you can't decipher what specific opioid  
15    caused it, can you?

16          A     No, I would say not specifically.

17          Q     And you also can't tell if that person took  
18    another illicit or prescription drug besides opioids in  
19    addition, correct?

20                   MS. McPHERSON: Objection; foundation.

21                   THE COURT: Overruled.

22                   THE WITNESS: I'm sorry, ma'am. Could you  
23    repeat the question?

24          BY MS. LUCAS:

25          Q     Sure. You also can't tell if the person took  
26    another illicit or prescription drug besides opioids,

1 correct?

2 A That would depend on signs and symptoms that are  
3 presented by the patient. It could be difficult, but  
4 again, I wouldn't be able to fully assess without doing a  
5 direct assessment myself.

6 Q But even if you're doing a direct assessment and  
7 you see signs of an opioid overdose, you don't know if  
8 they took something else besides opioids too, correct?

9 A That's correct.

10 Q And you're also aware that non-opioid drugs,  
11 like methamphetamine, are being laced with opioid-like  
12 illicit fentanyl in Oakland, correct?

13 MS. McPHERSON: Objection; foundation.

14 THE COURT: You may answer if you can.

15 THE WITNESS: I am aware that there are  
16 combinations often taken.

17 BY MS. LUCAS:

18 Q And those are combinations of things like  
19 methamphetamine and cocaine mixed with illicit fentanyl,  
20 correct?

21 A That could be.

22 Q And, in fact, sometimes there are situations  
23 where a person doesn't even know what they've overdosed  
24 on, correct?

25 A That could be possible, yes.

26 Q And you don't know whether overdoses in Oakland



1 are related to prescription or illicit opioids, correct?

2 MS. MCPHERSON: Objection; foundation and  
3 misstates his prior testimony.

4 THE COURT: Overruled.

5 THE WITNESS: I'm sorry, ma'am. Could you  
6 repeat.

7 BY MS. LUCAS:

8 Q I said you don't know whether overdoses in  
9 Oakland are related to prescription opioids or illicit  
10 opioids, correct?

11 A Not unless I am physically on scene for that  
12 specific call.

13 Q Right. And even when you are on scene for a  
14 specific all and even if you see clues, you can't say  
15 with certainty what substance somebody overdosed on,  
16 correct?

17 A Not typically.

18 Q Officer Bordona, you'd agree that there's a  
19 large population of methamphetamine users in Oakland,  
20 right?

21 MS. MCPHERSON: Objection; foundation.

22 THE COURT: Sustained as to foundation.

23 BY MS. LUCAS:

24 Q Officer Bordona, you've seen in your -- in the  
25 course of your duties that there are individuals in  
26 Oakland who use methamphetamine, correct?

1           A     Yes.

2           Q     Okay. And you have noted that, in the course of  
3 your duties, that you formed the belief that Oakland has  
4 a large population of methamphetamine users?

5           A     I do believe there are a large population of  
6 methamphetamine users.

7           Q     And in your experience as an officer for Oakland  
8 Police Department, the biggest problem that you've  
9 observed in Oakland involved drugs that are available for  
10 use in intravenous form, correct?

11                   MS. MCPHERSON: Objection; vague.

12                   THE COURT: Overruled.

13                   THE WITNESS: I'm sorry, ma'am. Could you  
14 repeat.

15           BY MS. LUCAS:

16           Q     Yes. In your experience as an officer for  
17 Oakland Police Department, the biggest problem that you  
18 observed in Oakland involved problems that are drugs that  
19 are available for intravenous use, correct?

20           A     Yes, that's correct.

21           Q     And those drugs include heroin and illicit  
22 fentanyl, correct?

23           A     I could not speak to that.

24           Q     You were deposed in this action, correct?

25           A     Yes.

26           Q     And you told the truth at your deposition?

1           A       Yes.

2                   MS. McPHERSON:  Objection.  We will see where we  
3   get, but he was deposed as the Oakland PMK, not in his  
4   personal capacity.

5                   MS. LUCAS:  Stan, could you put up Officer  
6   Bordona's deposition page 66, lines 2 through 11.

7                   "QUESTION:  Can you identify any drug that you  
8   think is most affecting Oakland?

9                   "ANSWER:  Any drug that is available for use  
10   in intravenous form.

11                   "QUESTION:  And which drugs with those be?

12                   "ANSWER:  Heroin is probably what I would say  
13   is the most well known.  Fentanyl is available  
14   to be used that way.  You have got any form  
15   of -- any form of an illicit drug that is able  
16   to be melted down into a liquid and drawn up  
17   into a syringe."

18           BY MS. LUCAS:

19           Q       Now, I want to talk briefly about --

20                   You can take that down.  Thank you.

21                   -- about the Narcan program that you just told  
22   the Court about at Oakland Police Department.  I think  
23   you said that the groundwork for the program began  
24   somewhere around September of 2019, correct?

25           A       The -- the idea and the -- the meeting with the  
26   chiefs happened in, I believe it was, June or July, and

1 the official groundwork, being my offering of the  
2 trainings for, yes, that would speak to right around  
3 September.

4 Q Okay. And then it launched around end of  
5 October, November 2019, correct?

6 A Yes.

7 Q Now, Narcan can be used for any opioid, whether  
8 it's an illicit opioid like heroin or fentanyl or a  
9 prescription opioid, right?

10 A Yes.

11 Q And it can also be used if someone overdoses on  
12 a non-opioid, like methamphetamine that's been laced with  
13 an opioid like illicit fentanyl, correct?

14 MS. MCPHERSON: Objection; relevance.

15 THE COURT: Ms. Lucas, what's the -- what is  
16 this relevant to?

17 MS. LUCAS: It's relevant to the fact that  
18 Narcan is being used on people who don't even know that  
19 they have injected opioids.

20 THE COURT: And that has not been established  
21 because...

22 MS. LUCAS: What do you mean? I'm not following  
23 your question.

24 THE COURT: You have already asked the officer  
25 whether he can tell with certainty precisely what was  
26 used. The officer has already testified that Narcan, in

1 a sense, has a reverse confirmation. If they suspect an  
2 opioid, they will use it. If it works, it was an opioid.

3 Is there something else that you are trying to  
4 establish?

5 MS. LUCAS: Only that the program is also used,  
6 in fact, on those individuals.

7 THE COURT: Please proceed.

8 BY MS. LUCAS:

9 Q Do you need the question again, Officer Bordona?

10 A Yes, ma'am. Thank you.

11 Q Sure. Narcan can also be used if someone  
12 overdoses on a non-opioid, like methamphetamine that's  
13 been laced with illicit fentanyl, correct?

14 A Reversing the fentanyl ingestion, yes.

15 Q Correct. So that means Narcan can be used on  
16 people who unknowingly use opioids, correct?

17 A Referred to as an accidental overdose? Yes.

18 Q And those accidental overdoses would be that  
19 they had no idea that they had ingested an opioid,  
20 correct?

21 MS. McPHERSON: Objection; speculation.

22 THE COURT: Ms. Lucas, asked and answered.  
23 Please move on.

24 BY MS. LUCAS:

25 Q Now, Officer Bordona, you are responsible for  
26 keeping the statistics regarding the number of times that

1 Oakland PD has used Narcan, right?

2 A Yes.

3 Q And when officers at Oakland PD administer  
4 Narcan, they're required to log the information and also  
5 contact you to report it, correct?

6 A Yes.

7 Q But the officers are not required to document  
8 what type of opioid they believed was in the person's  
9 system that caused the overdose, correct?

10 MS. McPHERSON: Objection; beyond the scope of  
11 direct.

12 THE COURT: Overruled.

13 THE WITNESS: Just to make sure I answer  
14 correctly, ma'am, could you repeat.

15 BY MS. LUCAS:

16 Q Of course. Officers are not required to  
17 document what type of opioid they believed was in the  
18 person's system that caused the overdose, correct?

19 A They are not required.

20 Q And as of the day that you were deposed in this  
21 action, Oakland PD's Narcan supply was sufficient,  
22 correct?

23 MS. McPHERSON: Objection. Phase I.

24 THE COURT: Sustained.

25 BY MS. LUCAS:

26 Q For Narcan, correct?

1 A Yes.

2 Q And if you need more, you can get it, correct?

3 A Yes.

4 MS. LUCAS: Thank you for your time,  
5 Officer Bordona. No further questions. My colleagues  
6 may have some for you.

7 THE COURT: Thank you, Ms. Lucas.

8 Any other defendant with questions for the  
9 officer?

10 MR. STAMPFL: Yes, your Honor. Karl Stampfl for  
11 the Allergan defendants, please.

12 \* CROSS-EXAMINATION \*

13 BY MR. STAMPFL:

14 Q Officer, my name is Karl Stampfl. I represent  
15 the Allergan defendants in this case.

16 Now, you testified on direct about the opioid  
17 overdoses to which you've responded. I just want to make  
18 sure. Among those overdoses, you have certainly seen  
19 indications that the individual was shooting heroin,  
20 correct?

21 A Under certain circumstances, yes.

22 Q And you've certainly seen indications that the  
23 person was using illicit fentanyl, correct?

24 A That would be difficult to determine. It would  
25 depend on what was seen with the subject.

26 Q Let me ask you this. My client's opioid is

1     called Kadian.

2                   Am I correct that you can't confirm that a  
3     single one of the individuals who overdosed tested  
4     positive for Kadian?

5           A     That was -- that would not speak to my level of  
6     expertise. That would be our criminalistics lab.

7           Q     So you would not be able to confirm that a  
8     single one of those overdoses involves Kadian, correct?

9           A     I would not.

10           MR. STAMPFL: Thank you. That's all I have.

11           THE COURT: Thank you, Mr. Stampfl.

12           Any other defendants with questions?

13           MR. FORAN: Yes. Very briefly, your Honor.

14                   \* CROSS-EXAMINATION \*

15           BY MR. FORAN:

16           Q     Good morning, Officer Bordona.

17           A     Hello, sir.

18           Q     Now, in addition to your responsibilities with  
19     respect to the Narcan program, you have also worked on  
20     criminal investigations on behalf of the OPD, correct?

21           A     Yes.

22           Q     And during your time at the OPD, you've worked  
23     on over a hundred investigations; is that right?

24           A     I believe so, yes.

25           MS. McPHERSON: Objection; beyond the scope of  
26     direct.



1 THE COURT: Mr. Foran, I assume this is going to  
2 become relevant at some point?

3 MR. FORAN: Yes. This is going to be relevant  
4 in terms of the number that involved opioids and the  
5 number of those that are relevant to prescription  
6 opioids.

7 THE COURT: Please move on, Mr. Foran. Ask your  
8 questions. Let's see where this goes.

9 MR. FORAN: Oh. Thank you, your Honor.

10 BY MR. FORAN:

11 Q Of those hundred investigations, about half  
12 involved drugs; is that correct?

13 A I believe so.

14 Q And of those investigations, about 20 to 25  
15 involved opioids?

16 A Is that coming from a statistic? I wouldn't be  
17 able to speak to that myself without looking at the  
18 numbers.

19 Q Well, that was your testimony when you were  
20 deposed in February of last year, correct?

21 A Then yes.

22 Q And of those 20 to 25 that involved opioids, you  
23 don't know how many involved prescription opioids; is  
24 that correct?

25 A Yes.

26 MS. MCPHERSON: Same objection. Beyond the

1 scope of direct as to criminal investigations.

2 THE COURT: The objection as beyond the scope is  
3 overruled. But, Mr. Foran, please avoid repetition of  
4 testimony already given.

5 MR. FORAN: Yes, your Honor. That's all I have  
6 on that point. Just one more quick issue.

7 BY MR. FORAN:

8 Q Officer, you are aware of the existence of  
9 counterfeit prescription opioid pills in Oakland,  
10 correct?

11 A I'm aware they are out there.

12 Q Yeah. You're aware that there are pills that  
13 are manufactured to replicate prescription opioid pills,  
14 correct?

15 A Yes, I'm aware.

16 Q And sometimes they are dyed the same color as  
17 prescription opioid pills, correct?

18 MS. MCPHERSON: Objection; foundation.

19 THE COURT: Overruled.

20 THE WITNESS: Can you ask one more time, sir.

21 BY MR. FORAN:

22 Q Sure. Yes, yes. So sometimes these counterfeit  
23 pills are dyed to be a color that would make them look  
24 like the kind of pill that might come from a -- that  
25 might be a prescription opioid; is that right?

26 A I'm aware of this, yes.

1           Q       And sometimes they are even stamped with a  
2       number to indicate dosage or make them look genuine?

3           THE COURT: Mr. Foran, the question is are they  
4       made to look exactly like an original. Is there a reason  
5       to ask five questions on so straightforward a subject?

6           MR. FORAN: No, your Honor. Thank you.

7           I have no further questions.

8           THE COURT: Thank you, Mr. Foran.

9           Does any other defendant have questions for the  
10       officer?

11          MR. JAMES: I thank Officer Bordona for his  
12       service to his community and have no questions for him.

13          THE COURT: Thank you, Mr. James.

14          Reexamination?

15          MS. McPHERSON: Just briefly a few questions,  
16       your Honor.

17                   \* REDIRECT EXAMINATION \*

18          BY MS. McPHERSON:

19          Q       Officer Bordona, from a police officer  
20       perspective in Oakland, does it matter what type of  
21       opioid causes an overdose?

22          A       No, ma'am.

23          Q       And why not?

24          A       It doesn't change our treatment.

25          MS. McPHERSON: Thank you, your Honor. No  
26       further questions.

1 THE COURT: May the officer be excused?

2 MS. McPHERSON: From the People's perspective,  
3 yes.

4 MS. LUCAS: From the defense perspective, yes.

5 And thank you, Officer Bordona, for your time  
6 and service.

7 THE WITNESS: Thank you, ma'am.

8 THE COURT: Officer Bordona, you may stand down,  
9 sir, and you are excused. Thank you very much for your  
10 time today.

11 THE WITNESS: Thank you, your Honor.

12 THE COURT: We will take the morning break at  
13 this time. We are adjourned until 20 to 11:00. Thank  
14 you.

15 (A brief recess is taken.)

16 THE COURT: All right. We are back on the  
17 record.

18 Mr. Pendell has confirmed that there is one  
19 additional document that was previously admitted into  
20 evidence that appears on ROA 6702. That is document  
21 P-0921. And to the extent it has not been previously  
22 formally admitted, that document is admitted.

23 The People are calling as their next witness  
24 Dr. Anna Lembke.

25 Ms. Fitzpatrick?

26 MS. LAURENDEAU: Excuse me for one moment, your

1 Honor. Amy Laurendeau. May I just make a quick point on  
2 Exhibit 921. I just think there's an ambiguity on the  
3 record that needs to be cleared up on Exhibit 921.

4 During Mr. Robinson's examination of Dr. Quick,  
5 the Court exhibit -- or the Court admitted Exhibit 921 as  
6 a one-page document, a printout screenshot, essentially,  
7 of the California opioid overdose dashboard. And I  
8 believe 921 has also been admitted as the dashboard  
9 itself and the underlying data. So I do think there's an  
10 ambiguity there that should be clarified for the record.

11 THE COURT: Thank you. Pursuant to the  
12 stipulation contained in ROA 6702 -- well, let me get  
13 more clarification from Mr. Pendell.

14 Mr. Pendell, with respect to this document 0921,  
15 without going back through my notes, precisely what  
16 portion was identified when the document was first  
17 admitted and what about the dashboard is being admitted  
18 other than the page that was identified at the time of  
19 the witness's testimony?

20 MR. PENDELL: Well, your Honor, it was my  
21 understanding the entire dashboard was in. And  
22 Dr. Stafford relied on the dashboard extensively and used  
23 far more than just a single page from that dashboard.

24 THE COURT: That's my recollection as well. So  
25 my assumption is that at this time the entire dashboard,  
26 which has the Exhibit Number 0921, is coming in.

1           Ms. Laurendeau, is there an issue with what the  
2 parties intended under ROA 6702?

3           MS. LAURENDEAU: There is not, your Honor. We  
4 don't object to the admissibility of the dashboard in its  
5 entirety. This is really just more of a clerical issue I  
6 was raising. At page 635 of the consolidated trial  
7 transcript when Mr. Robinson was examining Dr. Quick, he  
8 asked to admit and the Court admitted what was referred  
9 to as Exhibit 921.

10           And the Court stated, "I admitted the one page  
11 that had been shown on the screen to the doctor." That  
12 is Exhibit 921 as admitted.

13           THE COURT: All right. Thank you. I appreciate  
14 the clarification. What is admitted today, then, is the  
15 P-CA-0921 which constitutes the entire California Opioid  
16 Overdose Surveillance Dashboard as identified in  
17 ROA 6702. Thank you.

18           P-CA-000921 in its entirety was received in  
19 evidence.)

20           MR. ROBINSON: Thank you.

21           THE COURT: Ms. Fitzpatrick?

22           MS. FITZPATRICK: Thank you, your Honor. We  
23 call Dr. Anna Lembke, who was here. I saw her.

24           THE COURT: Good afternoon. Are you with us?

25           THE WITNESS: Yes, I am. Can you not see me?

26           THE COURT: Good morning. I can now.

1           Madam Clerk, would you swear the witness,  
2     please.

3           THE CLERK: Please raise your right hand.

4           Do you solemnly state that the testimony you  
5     shall give today in this matter now pending before this  
6     Court will be the truth, the whole truth, and nothing but  
7     the truth, so help you God?

8           THE WITNESS: Yes, I do.

9  
10                           \* ANNA LEMBKE, MD \*  
11     called as a witness by and on behalf of the plaintiff,  
12     having been first duly sworn, was examined and testified  
13     as follows:

14           THE CLERK: Please state your full name and  
15     spell your last name for the record.

16           THE WITNESS: Anna Lembke, L-E-M-B-K-E.

17           THE CLERK: Thank you.

18                           \* DIRECT EXAMINATION \*

19           BY MS. FITZPATRICK:

20           Q     Good morning, Dr. Lembke. Can you tell the  
21     Court your current position?

22           A     I am professor of psychiatry and addiction  
23     medicine at Stanford University School of Medicine. I am  
24     medical director of addiction medicine, chief of the  
25     Addiction Medicine Dual Diagnosis Clinic, and program  
26     director for our addiction medicine fellowship.

1 Q And, Dr. Lembke, we worked together to prepare  
2 some slides for this case, correct?

3 A That is correct.

4 Q If we can pull up the first slide.

5 And for ease, Dr. Lembke, we're going to rely on  
6 the slides to go through some of your qualifications in  
7 this matter.

8 Can you tell the Court what your education is?

9 A I did my undergraduate at Yale University. Then  
10 I got my medical degree from Stanford University. I did  
11 two years of pathology, a year of internal medicine at  
12 Highland Hospital in Oakland. And I did a psychiatry  
13 residency here at Stanford and a fellowship in mood  
14 disorders before joining the faculty here at Stanford.

15 Q And when did you join the faculty at Stanford?

16 A It was 2003.

17 Q And are you licensed to practice medicine?

18 A Yes, I am.

19 Q And from when?

20 A I'm licensed to practice medicine from -- 1995  
21 was the year I graduated.

22 Q In what areas do you practice?

23 A I'm a psychiatrist. I also have a courtesy  
24 appointment in team medicine. And my area of focus is  
25 addiction as well as deprescribing, helping people who  
26 are dependent on chemicals like opioids to slowly and



1 safely get off of them.

2 Q Are you board-certified in any areas?

3 A I am. I am board-certified in psychiatry and  
4 neurology and also in addiction medicine.

5 Q And as part of your appointment at Stanford, do  
6 you teach medical students?

7 A I do.

8 Q And when did you begin to teach medical students  
9 at Stanford University?

10 A Well, I began actually when I was a -- a medical  
11 student myself as a TA, and then essentially continued on  
12 in that capacity, joining the faculty, which is the  
13 classic three-legged stool type of appointment, part  
14 clinical work, part scholarly work, and part teaching.  
15 And I've been teaching medical students and residents for  
16 the past 25 years.

17 Q In what subjects do you teach medical students  
18 and residents?

19 A I teach many different aspects related to mental  
20 health. I teach about addiction in all its various  
21 forms. I have taught extensively on the opioid epidemic,  
22 including the problem of misleading messaging that has  
23 influenced prescribing in medicine. I teach on the  
24 overlap between addiction, dependence, and pain. I teach  
25 about the neuroscience of addiction.

26 Q And looking at this slide, Dr. Lembke, and your

1 related experience, can you tell the Court what diplomate  
2 and adviser to the American Board of Addiction Medicine  
3 is?

4 A Diplomate simply means that I'm board-certified  
5 in that discipline, and I have specialized training. I  
6 sat for an exam and passed that exam. Adviser means that  
7 I sat on various committees of the American Board of  
8 Addiction Medicine in a senior leadership role.

9 Q Is that the same for the diplomate of the  
10 American Board of Psychiatry and Neurology?

11 A A diplomate of the American Board of Psychiatry  
12 and Neurology means I have specialty training in  
13 psychiatry and neurology. And I sat for the exam, I  
14 passed the exam, and I'm board-certified.

15 Q And looking at the next one, chief of addiction  
16 medicine, dual diagnosis clinic, and medical director,  
17 department of psychiatry at Stanford University, what is  
18 the dual diagnosis clinic?

19 A Dual diagnosis is a term used to identify  
20 individuals who struggle with substance use disorders and  
21 other addictions as well as a co-occurring mental health  
22 disorder. It also increasingly has come to mean  
23 individuals who struggle with some kind of chemical  
24 dependency or chemical addiction as well as chronic pain.

25 So our clinic is devoted to serving those  
26 patients who struggle with mental -- with multiple mental

1 health issues, substance use issues, chemical dependency,  
2 and also, increasingly, chronic pain.

3 Q And what are your responsibilities as the chief  
4 of addiction medicine in the dual diagnosis clinic?

5 A I'm responsible in some sense for all the  
6 patients that come through our clinic. I'm responsible  
7 for hiring and mentoring young faculty, for teaching  
8 residents, medical students, visiting scholars, for  
9 ensuring that the administration of the clinic and the  
10 oversight of the clinic is done in a safe and  
11 conscientious way consistent with medical standards.

12 So it's both an important clinical service role  
13 and an important teaching/mentoring/administrative  
14 leadership role.

15 Q And you're a medical director for the deputy of  
16 psychiatry. Is that a separate appointment at Stanford?

17 A I'm sorry. I'm medical director for addiction  
18 medicine within the department of psychiatry. It's a  
19 special designation acknowledging my expertise in  
20 addiction medicine and my leadership skills in this arena  
21 developing services for patients who get their care at  
22 Stanford Health services. It's become an increasingly  
23 important priority for Stanford to create these services  
24 because of the opioid epidemic.

25 Q And as part of your experience at Stanford  
26 University, do you -- have you done studies and research

1 into addiction caused by opioids?

2 A Yes, I have.

3 Q And, specifically, have you done research and  
4 studies into addiction caused by prescription opioids?

5 A Yes, I have.

6 Q And have you taught medical students and  
7 residents on issues related to opioid addiction?

8 A Yes, I have.

9 Q And how long have you been doing that?

10 A I've been doing that for about a decade.

11 Q And in addition to your role as teacher, you  
12 also maintain, I think you said, a clinical practice; is  
13 that right?

14 A My clinical practice is under the auspices of  
15 Stanford University School of Medicine. This is not a  
16 private clinical practice the way that those words might  
17 imply. I'm on the faculty at Stanford. I'm a paid  
18 employee of Stanford University. I'm on their university  
19 faculty. And part of my role is to provide clinical  
20 services.

21 Q And are part of the clinical services that you  
22 provide at Stanford University related to those who  
23 suffer from opioid use disorder?

24 A That is correct.

25 Q Let me go back to your teaching. I talked a  
26 little bit about your teaching at Stanford University.

1 Do you also teach those outside of Stanford University on  
2 issues related to opioid addiction?

3 A Yes, I do. I've given many lectures to medical  
4 schools and universities all around the country on topics  
5 related to opioid addiction and the opioid epidemic,  
6 including the misleading messaging that is in question  
7 here today.

8 Q And I was just about to ask you have you  
9 taught -- outside of Stanford University, have you taught  
10 about the pharmaceutical opioid industry's marketing and  
11 promotion of opioids?

12 A Yes, I have.

13 Q And have you taught on that topic in  
14 relationship to the pharmaceutical opioid industry's  
15 marketing of opioids and the opioid epidemic?

16 A Yes, I have. I've taught that in multiple  
17 different contexts here at Stanford, in business school,  
18 in law school, medical school, undergraduate classes.  
19 I've also been invited to Duke University, Johns Hopkins  
20 University, to many other universities to discuss this  
21 topic.

22 Q And have you done some research and teaching on  
23 the pharmaceutical opioid industry's partnership with or  
24 financial support for organizations that have influence  
25 on how medicine is practiced?

26 A Yes, I have.

1           Q     And have you taught that both in Stanford and  
2 outside of Stanford?

3           A     Yes, I have.

4           Q     And when you've been teaching on this topic, do  
5 you also include your firsthand experience with the  
6 pharmaceutical opioid industry's marketing and promotion  
7 of opioids?

8           A     Yes, I do. I am of the generation that was the  
9 primary target and recipient of the messaging. And so I  
10 do have firsthand, lived experience of how those messages  
11 were received and how they impacted medical care.

12          Q     Can you tell the Court a little bit about your  
13 firsthand experience with the pharmaceutical opioid  
14 industry's marketing and promotion of opioids?

15          A     Yes, I can.

16                Early in my career after completing my training,  
17 I was mandated by the state board of -- the Medical Board  
18 of California in 2001 to attend an all-day, mandatory  
19 seminar on the treatment of pain. I was mandated to do  
20 that in order to keep my license, as were all other  
21 practicing physicians in the state of California.

22                I remember being surprised that I was being  
23 mandated to go to a continuing medical education course  
24 that was outside of psychiatry and mental health. That  
25 was, in my experience, unprecedented. And at that course  
26 the messages were that there is an epidemic of,

1     quote-unquote, undertreated pain in the United States,  
2     that essentially we physicians were responsible for the  
3     epidemic of undertreated pain and that the reason for our  
4     responsibility had to do with our fear of prescribing  
5     opioids and our, quote-unquote, opioidphobia.

6             Then the majority of the day consisted of  
7     lectures on how to start opioids in patients with pain,  
8     which opioids to use, how to titrate them, that they were  
9     effective in treatment of chronic pain and many other  
10    pain states, and that as long as we physicians were  
11    prescribing them to patients in pain, it was very  
12    unlikely that the patients would get addicted.

13            And that messaging continued -- I would just  
14    add, because it's very important for 2001, that we were  
15    also taught that pain is the fifth vital sign so that we  
16    were required to ask every patient whether or not they  
17    were experiencing pain, whether or not there were any  
18    outward visible manifestations of pain in that patient,  
19    or whether or not the patient had sought out medical care  
20    expressly for pain treatment.

21            And those messages were continued throughout the  
22    entire last two decades.

23            Q     And were you --

24            MR. BRODY: Your Honor, excuse me. Steve Brody  
25    for Janssen.

26            Move to strike the last answer due to lack of

1 foundation. And the question was about firsthand  
2 experience with the industry's marketing and promotion,  
3 and Dr. Lembke described a California Medical Board  
4 meeting that she attended.

5 THE COURT: Just a moment.

6 The objection is overruled.

7 BY MS. FITZPATRICK:

8 Q Dr. Lembke, in addition to the 2001 meeting that  
9 you just described, did you continue to have firsthand  
10 experience in receiving marketing and promotional  
11 messages concerning opioids from the pharmaceutical  
12 opioid industry through your career?

13 A Not in the last year or so.

14 Q Prior to -- I'm asking after the single seminar  
15 we talked about, did you continue after that to see  
16 marketing and promotional messages in your own personal  
17 career?

18 A Yes. I continued to see those same marketing  
19 and promotional messages throughout the first decade of  
20 the 2000s and I think, really, well into the decade  
21 between 2010 and 2020.

22 Q And in addition to your own personal experience  
23 in seeing and receiving those messages, have you done  
24 research and teaching on the pharmaceutical opioid  
25 industry's continuing impact on generations of doctors?

26 MR. KABA: Objection; vague as to "the



1 pharmaceutical opioid industry," your Honor.

2 THE COURT: Overruled.

3 THE WITNESS: Yes. I have continued to teach on  
4 the impact of the misleading messaging of the  
5 pharmaceutical opioid industry. And I do define that  
6 concept in my report.

7 BY MS. FITZPATRICK:

8 Q And have you also taught on the pharmaceutical  
9 opioid industry's publications in the peer-reviewed  
10 medical literature and how that has influenced  
11 physicians' opioid prescribing practices?

12 A Yes, I have.

13 Q Have you testified before Congress, Dr. Lembke?

14 A Yes, I have.

15 Q And when did you testify before Congress?

16 A I don't recall the exact date. I would have to  
17 look at my CV.

18 Q Can you tell us what you testified about?

19 A Yes. This was the -- I testified multiple times  
20 having to do with the impact of the flooding of society  
21 with prescription opioids as a causative element in the  
22 current opioid epidemic.

23 I've testified on ways that I think the  
24 government can help redress these harms, for example, by  
25 supporting more education for medical students,  
26 residents, and physicians on the nature of the

1 interrelationship between opioid dependence, opioid  
2 addiction, and chronic pain, including the creation of  
3 addiction medicine in fellowships.

4 I've testified multiple times on the need to  
5 create a better workforce to target the problem of opioid  
6 addiction and the opioid epidemic and to use academic  
7 detailing as opposed to pharma-funded messaging in order  
8 to essentially reeducate physicians to reverse the  
9 miseducation they've been receiving for the last  
10 20 years.

11 Q And in addition to your testimony before  
12 Congress, I think you mentioned to me a couple minutes  
13 ago that you taught at Duke University or have lectured  
14 at Duke University; is that correct?

15 A Yes.

16 Q Do you remember when that was?

17 A I believe that was last year.

18 Q And can you tell us what you lectured on at Duke  
19 University?

20 A That was a class specifically on the ways that  
21 the pharmaceutical industry's packaging and messaging of  
22 the evidence can influence the ways that doctors  
23 prescribe opioids.

24 Q And who invited you to speak at that Global  
25 Health Institute at Duke University?

26 A That was the director of the course.

1 Q And who was the target audience? Who was in the  
2 audience for that lecture?

3 A They were Duke undergraduates.

4 Q And I want to turn to your clinical experience  
5 in a second, but all of the teaching that we've just been  
6 talking about and your testimony before Congress and the  
7 like, was that all done separate and apart from your work  
8 as an expert here on behalf of the People of the State of  
9 California?

10 A Yes. That's been done separate.

11 Q But was it all on topics that are related to  
12 your expert opinion and your testimony here today?

13 A Much of it is related, yes.

14 Q Let's go back to your clinical practice. Can  
15 you describe for the Court what your current clinical  
16 practice is comprised of?

17 A Our clinic now sees patients with all manner of  
18 addiction. And these are people who are addicted to  
19 drugs and alcohol, including prescription drugs, as well  
20 as people who have what we call process addiction. These  
21 are addictions to things that are not drugs, like  
22 gambling, pornography, video games.

23 Increasingly, our clinic has also had to fill in  
24 the gap to treat patients who have become physiologically  
25 dependent on opioids through a prescription but do not  
26 meet strict criteria for an opioid use disorder or opioid

1 addiction but nonetheless need professional support  
2 tapering down or off of opioids. These are the  
3 individuals that I think have really fallen through the  
4 cracks in terms of our efforts in the last five years or  
5 so to help people harmed by the opioid epidemic.

6 And by that I mean that we have a growing number  
7 of individuals who seek out our clinical care to help  
8 them lower their opioid doses or get off of opioids.  
9 These are individuals who are on very high doses of  
10 opioids, many of them for decades through a doctor's  
11 prescription, and have become physiologically dependent  
12 to the point that, even though the opioids are not  
13 helping their pain and, in fact, harming them, they are  
14 unable to taper the opioids because of neuroadaptation  
15 and extreme symptoms of withdrawal.

16 So we work with these individuals to slowly and  
17 incrementally taper them down on their doses and, when we  
18 can, to get them completely off of opioids.

19 Q Now, we're going to go into some of those  
20 concepts of dependence and addiction a little bit later,  
21 but going back to your clinical practice, can you  
22 estimate the number of patients you've treated for  
23 conditions related to OUD, or opioid use disorder, or  
24 dependence on opioids?

25 A I've treated thousands of patients with opioid  
26 addiction.

1           Q     Are most of those patients from the vicinity  
2     around Stanford University?

3           A     Most of them are from the vicinity, but we have  
4     patients who come from very far away, from the -- you  
5     know, the Central Valley, from the Sierras. With the  
6     increasing use of telehealth since COVID and quarantine,  
7     we are now seeing patients who live in Southern  
8     California because they're able to see us virtually.

9           Q     Okay. And while you're working with the  
10    patients that you've described that either have OUD or  
11    dependence on opioids to address those issues, do you  
12    also work in developing treatment plans for their pain  
13    conditions as well?

14          A     Yes. We very much prioritize integrating pain  
15    treatment with their chemical dependency or opioid  
16    addiction treatment. We've established groups  
17    specifically for the growing cohort of patients that we  
18    have who struggle with severe chronic pain.

19                We have a cognitive behavioral therapy group for  
20    patients with chronic pain. These are individuals in our  
21    clinic who are being treated for opioid dependence or  
22    opioid addiction who have chronic pain and need treatment  
23    for that. So that's a psychological intervention.

24                We also, when appropriate, use medications like  
25    antidepressants to help patients with their chronic pain.  
26    There are some antidepressants that have been shown to

1 have mild benefit in helping patients with those  
2 problems.

3 Q Dr. Lembke, several minutes ago you used a term  
4 "deprescribing." Can you tell the Court what that means?

5 A There are more than 10 million Americans who  
6 take opioids every day, many of whom at very -- many of  
7 whom have done so for years and decades, some at  
8 extremely high doses.

9 And those individuals are not benefiting and are  
10 being harmed and, in fact, are at high risk for  
11 accidental overdose and addiction with those doses yet  
12 cannot get off. So they come to our clinic voluntarily  
13 or are referred by their prescribing doctors for help  
14 with tapering down and off of opioids.

15 Importantly, these are individuals who are not  
16 meeting the strict DSM-5 criteria for opioid use  
17 disorder, otherwise known as addiction. They are  
18 physically dependent. They have always taken their  
19 opioids as prescribed.

20 Q Dr. Lembke, do you continue to treat individuals  
21 with OUD and dependence to prescription opioids today?

22 A Yes. It's the bulk of the practice that we do.  
23 Probably about 50 percent of our patients struggle with  
24 opioid addiction or opioid dependence.

25 Q And when did you first start treating  
26 individuals suffering from OUD, opioid use disorder, or

1 dependence on opioids?

2 A In the early 2000s, around 2002, 2003, I started  
3 seeing patients -- sorry. That's my phone. I'll turn it  
4 off later.

5 I started seeing patients, some of whom were  
6 coming in saying that they struggled with opioid  
7 dependence or opioid misuse or opioid use disorder.

8 I also had a patient around 2004-2005 who died  
9 of an opioid overdose. I was treating her for something  
10 else. According to her husband, she had been taking her  
11 opioids exactly as prescribed by her doctor. And so, in  
12 that sense, saying that she died of an opioid overdose is  
13 really a misnomer because she did not overdose. She was  
14 taking her medications as prescribed.

15 I remember in the early days I had a mother I  
16 was treating for depression who lost her son to methadone  
17 who had been prescribed methadone for pain and was taking  
18 it as prescribed.

19 So it was -- it really began at least to come to  
20 my attention around 2003-2004. I think it's important to  
21 point out, though, that I was in a position to observe  
22 the harm from opioids much earlier than other physicians  
23 because of the nature of my work.

24 MR. KABA: I am going to object and move to  
25 strike everything after "in the early 2000s, around 2002,  
26 2003" as both a narrative and incorporating hearsay.

1 MS. FEINSTEIN: Join in that objection, your  
2 Honor.

3 THE COURT: Just a moment. The question was  
4 answered after -- or by the sentence, "I started seeing  
5 patients, some of whom were coming in saying that they  
6 struggled with opioid dependence or opioid misuse or  
7 opioid use disorder." Everything after that was  
8 nonresponsive to the question and is stricken.

9 BY MS. FITZPATRICK:

10 Q Doctor, moving on, do you prescribe opioids for  
11 pain?

12 A I do not prescribe opioids for pain, no.

13 Q Do you prescribe opioids for the treatment of  
14 OUD or dependence on opioids?

15 A Yes, I prescribe the opioid buprenorphine for  
16 the treatment of opioid use disorder.

17 Q And can you explain to the Court why you would  
18 write a prescription for an opioid for the treatment of  
19 OUD or opioid dependence?

20 A Buprenorphine is evidence-based treatment for  
21 opioid use disorder. And so in practicing evidence-based  
22 medicine, I use that tool in appropriate patients for the  
23 treatment of opioid use disorder/opioid addiction.

24 Q And you just used the term "evidence-based  
25 treatment" or "evidence-based medicine" in that answer.

26 Can you explain what that is to the Court?



1           A       So evidence-based medicine is the grounding of  
2       our practice of medicine in scientific evidence. We all  
3       strive to practice evidence-based medicine, and I do so  
4       myself.

5           Q       And what is the evidence that you're referring  
6       to there?

7           A       There are multiple placebo-controlled trials  
8       across decades and continents, showing that opioid  
9       agonist therapy, like buprenorphine, in the treatment of  
10      opioid addiction is effective. And so I base my practice  
11      on that experience and on that -- I should say on that --  
12      on that literature, on that evidence.

13          Q       And does the use of buprenorphine to treat OUD  
14      or dependence on opioids raise any safety concerns for  
15      those patients?

16          A       Yes, of course. An opioid is an opioid is an  
17      opioid. And people can get addicted to the opioid  
18      buprenorphine. They can misuse it. In rare instances  
19      they can overdose on it. It needs to be very carefully  
20      considered, carefully monitored, used very judiciously.  
21      It's a dangerous medicine.

22          Q       Why do you use it then?

23          A       I use it as harm-reduction strategy in  
24      individuals who essentially have brains that are  
25      fundamentally changed by exposure to opioids. And to  
26      understand that, it's really necessary to understand the

1 neuroscience behind how prolonged exposure to an opioid  
2 can cause neuroadaptive changes and in some instances are  
3 irreversible.

4           So patients to whom we give opioids to treat  
5 opioid use disorder, although on the face of it  
6 counterintuitive, is the way that we allow them to  
7 reestablish baseline homeostasis of the brain so that  
8 they're not constantly craving opioids, and that they can  
9 reengage in other recovery work, reengage with their  
10 families, reengage with their professional lives, and  
11 just generally pursue a life worth living.

12       Q     And we are going to get into the details of the  
13 neuroscience that you just referenced there, but let me  
14 ask you a couple of more questions about your background  
15 first.

16           In addition to the positions that you described,  
17 do you also have a position at Stanford at the department  
18 of anesthesiology and pain medicine?

19       A     Yes. I have a courtesy appointment in pain and  
20 anesthesia at Stanford.

21       Q     And what is a courtesy appointment?

22       A     Courtesy appointment is recognition of faculty  
23 contributions in different dimensions -- clinical  
24 service, teaching, scholarly work -- to a department  
25 outside of the department in which an individual has  
26 their primary appointment. So my primary appointment is

1 in psychiatry, but I have a courtesy appointment in pain  
2 anesthesia.

3 Q And do you consult with your colleagues at  
4 Stanford about treating patients who are taking  
5 prescription opioids for pain?

6 A Yes, on a regular basis. For many years I  
7 actually went once a week to the pain clinic and was  
8 embedded with my pain colleagues there on helping them  
9 tackle this problem of patients coming in dependent,  
10 addicted, patients with chronic pain.

11 And I continue to do that work primarily now  
12 located here in our building in psychiatry but also lots  
13 of what we call curbside consults on inpatients. So  
14 there's lots of collaboration and communication between  
15 myself and my pain colleagues.

16 Q Why is it necessary to collaborate between  
17 people like you who deal with those who are suffering  
18 from addiction or OUD or dependence and those who are  
19 managing pain?

20 A As a result of the opioid epidemic, pain  
21 treatment and opioid addiction treatment have become  
22 inextricably intertwined.

23 Q Have you, in preparation for the work that  
24 you've done both at Stanford outside of this courtroom  
25 and in this courtroom, looked at the body of medical and  
26 scientific literature that is related to OUD and

1 dependence on opioids?

2 A Yes. I have been following that literature for  
3 15 to 20 years.

4 Q And --

5 Move to the next one, Jon.

6 And have you personally contributed to that body  
7 of literature?

8 A Yes, I have.

9 Q Can you tell the Court about the book that you  
10 have published on that topic?

11 A So I wrote this book published by Johns Hopkins  
12 University Press in 2016 called Drug Dealer, MD: How  
13 Doctors Were Duped, Patients Got Hooked, and Why It's So  
14 Hard to Stop.

15 The title, Drug Dealer, MD, is intentionally  
16 provocative because my goal was to really communicate to  
17 my colleagues within medicine as well as persons outside  
18 the practice of medicine how it was that a whole  
19 generation of doctors were duped into overprescribing  
20 opioids for minor and chronic pain conditions, leading to  
21 the opioid epidemic.

22 Q And was that book an extension of both the  
23 research and teaching you had done on some of those  
24 topics prior to 2016?

25 A Yes, it was.

26 Q And how did you go about doing the research for

1     that book?

2           A     I read the medical literature. I did interviews  
3     with multiple stakeholders inside of medicine, patients  
4     and providers alike. I synthesized all of that  
5     information, including my own personal experience, of the  
6     misleading messaging, and I wrote a book trying to  
7     genuinely understand how it was that well-educated and  
8     well-intentioned prescribers were engaging in care that  
9     was actually harming patients.

10          Q     Did you publish that book -- or write and  
11     publish that book before you were retained as an expert  
12     for any government entity in opioid litigation?

13          A     I had no contact with lawyers regarding material  
14     in this book prior to writing or publishing this book in  
15     2016.

16          Q     And can you tell us some of the topics that you  
17     covered in that book that are pertinent to the testimony  
18     you're here to offer today?

19          A     I emphasize in the book that the opioid epidemic  
20     is a complex and multifactorial phenomenon, that there  
21     are many -- many individuals who are culpable, including  
22     physicians like myself; including patients who lied to  
23     their doctors about how they were using medicine;  
24     including the regulatory bodies that were meant to ensure  
25     standards of care, like the Federation of State Medical  
26     Boards, the Joint Commission, the FDA.

1           And I also implicate the opioid pharmaceutical  
2    industry for the myths that they propagated under the  
3    guise of science that essentially duped doctors into  
4    believing that opioid prescribing in the way that it was  
5    being encouraged was evidence-based when, in fact, there  
6    was not evidence to support that kind of prescribing.

7           Q     And, Doctor, we're going to come back to some of  
8    those messages and some of that evidence in relation to  
9    these defendants, but let me just move through your  
10   qualifications.

11           The BRAVO protocol, what is that?

12           A     So about five years ago, shortly around the time  
13   that the 2016 CDC guidelines came out urging doctors to  
14   prescribe fewer opioids; to prescribe more judiciously;  
15   to not use opioids first line for pain; to, when using  
16   opioids, use the lowest dose for the shortest duration.

17           What happened was that many doctors went running  
18   scared and were refusing then to treat these patients,  
19   leaving us with de facto opioid refugees, patients with  
20   chronic pain who had been on opioids for a long period of  
21   time now wandering clinic to clinic trying to find  
22   somebody to help them.

23           So the BRAVO protocol was designed specifically  
24   to educate doctors about, number one, the importance of  
25   helping these patients and not abandoning them because of  
26   medicolegal concerns, and then specifically giving them a

1     compassionate patient-centered approach to how to taper  
2     opioid-dependent chronic pain patients to lower doses.

3             So this is a protocol to educate physicians  
4     specifically for that population of chronic pain patients  
5     physically dependent on opioids for whom a taper is  
6     indicated.

7             Q     Thank you, Doctor.

8             In addition to -- we've talked about your  
9     clinical practice; we've talked about your teaching.

10            Have you ever been interviewed on camera about  
11   the opioid epidemic?

12           A     Yes, I have. I was recently interviewed on the  
13   HBO documentary called The Crime of the Century, and  
14   there have been other instances.

15           Q     Now, let me go back to some of your experience  
16   in treating patients. When did you begin to treat  
17   patients with substance use disorders generally?

18           A     When I first began my practice of psychiatry, I  
19   was not interested in treating patients with addiction.  
20   It's not something that I had received much, if any,  
21   education on in medical school or even residency. I did  
22   not consider addiction at that time to be something  
23   within the purview of medical treatment.

24           And it was really only as I began my practice,  
25   my early career practice in 2000-2001, that I recognized  
26   that my patients were not getting better in large part

1 because I was ignoring their substance use problems.

2 So I decided to reeducate myself on that front  
3 and ultimately shifted my practice to specialize in  
4 treatment of patients with substance use disorders and  
5 other addictions.

6 Q Were there any changes in the types of  
7 substances that your patients were struggling with  
8 between the early 2000s and about 2011-2012?

9 A Yes. So as I said before, in the early 2000s I  
10 started seeing more and more patients coming in who were  
11 addicted to prescription opioids or misusing or dependent  
12 on prescription opioids.

13 Q And did that continue to increase during the  
14 first decade of the 2000s?

15 A Yes, it did.

16 Q And has that remained steady or continued to  
17 increase in the second decade of the 2000s?

18 A It continued to increase. And now, as I said,  
19 our clinic is probably about 50 percent of these legacy  
20 pain patients who need help with either opioid dependence  
21 or opioid use disorder, all of whom began with a  
22 prescription opioid for the treatment of pain.

23 Q And what do you mean by a legacy pain patient?

24 A This is a controversial term, but essentially  
25 what it refers to is individuals who have been adversely  
26 impacted by the overprescribing of opioids for chronic



1 pain, and now we have created this generation of chronic  
2 pain patients who are also dependent on or addicted to  
3 opioids. So it's a -- they're a legacy of the paradigm  
4 shift in medicine that led to overprescribing.

5 Q And in formulating your opinions in this case on  
6 the causes of the prescription opioid crisis, have you  
7 relied on published medical literature?

8 A Yes, I have.

9 Q And how have you gone about researching or  
10 selecting published medical literature for your opinions?

11 A I've monitored the major academic databases --  
12 PubMed, MEDLINE, Google Scholar -- to keep up on papers  
13 that are written regarding opioids, chronic pain,  
14 overdose, death, whatever is out there. I have  
15 intentionally tried to look at this from all angles.

16 I specifically tried to look for studies showing  
17 evidence that opioids are effective in the treatment of  
18 chronic pain. And I have not been able to find those  
19 studies, but I have looked hard for those.

20 I have also looked hard for studies showing that  
21 addiction is rare in patients who are prescribed opioids  
22 for the treatment of chronic pain, and I have been unable  
23 to find those studies as well.

24 Q And in addition to the published literature, did  
25 you also look at government data and government  
26 publications as part of your research in this case?

1           A       What do you mean by government data or  
2       government publications?

3           Q       Things that are published by the United States,  
4       the California governments concerning opioids and opioid  
5       use?

6           A       Yes.   So I kept up on the latest publications  
7       from the CDC, for example.

8           Q       And have you also looked -- let me ask you, were  
9       those the same types of information that you looked at  
10      prior to becoming a retained expert in opioid litigation  
11      for your research and publications concerning opioid use,  
12      opioid use disorder and the causes of them?

13          A       Yes.

14          Q       And did you apply any different standards to the  
15      kind of research that you did on government publications  
16      and medical and scientific literature in this case than  
17      you did in the research you have done prior to being  
18      retained as an expert?

19          A       No.

20          Q       And in this case, in addition to that type of  
21      information, did you look at the defendants' own  
22      documents?

23          A       Yes, I did.

24          Q       Okay.   And did you specifically look at  
25      documents that were produced by the four defendant  
26      families in this case?

1           A       Yes, I did.

2           Q       Okay. And can you tell me how you went about  
3 selecting documents from the defendants that you relied  
4 on for your opinions that are specific to the report you  
5 generated in this case?

6           A       Yes. So I was approached in 2017 by Don  
7 Arbitblit from Lief Cabraser Heimann & Bernstein asking  
8 me if I was willing to be involved in federal opioid  
9 litigation. This was after the publication of my book.

10                   And I initially expressed reservation about  
11 that. I hadn't done that type of work before. I wanted  
12 to be certain that my involvement would be pursuant to  
13 the truth of the matter and not to some other end. And I  
14 was reassured about the desire to explore the truth in  
15 this case.

16                   So in my work with Lief Cabraser Heimann &  
17 Bernstein in the MDL litigation, I was given documents by  
18 Don and his team to review, and I reviewed those  
19 documents. I then asked for additional documents as I  
20 felt I needed them as I went along in this case.

21           Q       And what was the process of requesting and being  
22 given access to additional documents from the defendants  
23 in this case?

24           A       Well, for example, I might review a document  
25 that they gave to me, and I would say to them, "Well, how  
26 was this document actually used? You know, who

1 actually -- who was the audience for this document?" Or  
2 the document might reference an article, and then I would  
3 go look up that article and try to see whether or not  
4 what the document actually purported to do with that  
5 article was what that article actually showed.

6 Q And how did you satisfy yourself that you had  
7 seen the relevant documents from the defendants that you  
8 needed in order to properly reach your opinions in this  
9 case?

10 A After reviewing multiple documents, there were  
11 recurring themes that kept coming up again and again.  
12 And based on saturation of those themes, I felt I had  
13 seen an adequate number of documents to form an opinion.

14 Q Just briefly outline the methodology that you  
15 used to gather the information, synthesize it, and  
16 generate your report in this case.

17 A Yeah. My opinion is based on all of the medical  
18 literature that I had reviewed. It is based on my review  
19 of the documents produced by the defendants in this case.  
20 It's based on 25 years of clinical experience and  
21 teaching as well as my own research that I did for the  
22 book Drug Dealer, MD.

23 Q And did you rely on more than just marketing  
24 studies generated by the defendants in preparing your  
25 report and reaching your opinions in this case?

26 A Yes.

1           Q     And by virtue of your training, your experience,  
2     and your research, do you have a specialized knowledge in  
3     how defendants' marketing -- the prescription opioid  
4     industry's marketing of their opioids affected  
5     prescribing practices by physicians?

6           A     I do think I have a specialized knowledge here,  
7     which is both a combination of my scholarly work,  
8     reviewing documents, reading the medical literature, as  
9     well as my experiential knowledge of having been the  
10    recipient of these marketing messages, of being in that  
11    generation of individuals trained in the late '90s and  
12    early '00s -- my generation is, in essence, the  
13    overprescribing generation.

14                So because I come from inside of medicine, I am  
15    a medical doctor, and I was trained in that era, I  
16    contextually understand how these marketing messages  
17    landed with prescribers.

18           Q     Thank you, Doctor.

19                Okay. With that background, let me turn to some  
20    basic medical 101 -- hold that -- medical 101.

21                Can you start by telling us what are opioids?

22           A     Opioids are any molecule that binds to the  
23    opioid receptor and stimulate that receptor.

24           Q     And are there different types of opioids?

25           A     Yes. Opioids can be naturally occurring,  
26    meaning that they begin with the opium poppy -- for

1 example, morphine, codeine, thebaine. They can also be  
2 what's called semisynthetic, meaning that they begin with  
3 a naturally occurring opioid from the opioid poppy and  
4 then they are altered in some way in the laboratory. And  
5 most of the Schedule II prescription opioids are  
6 semisynthetic.

7 And opioids can also be purely synthetic which  
8 means they do not need an opium poppy precursor and are  
9 made entirely in a laboratory, and that would include  
10 fentanyl and methadone.

11 Q And, Doctor, what are prescription opioids?

12 A Prescription opioids are opioids that can be  
13 obtained through a doctor's prescription and dispensed by  
14 a pharmacy.

15 Q And what is what's been called in this case  
16 illicit opioids?

17 A Illicit opioids are opioids that are obtained in  
18 any way that is not prescribed.

19 Q Do prescription opioids and illicit opioids have  
20 the same effect on the brain?

21 A Yes. As I said before, an opioid is an opioid.  
22 It doesn't matter if it comes in a pill bottle or you buy  
23 it on the street. Opioids work the same way on the  
24 brain.

25 Q And can opioids that are prescribed by a  
26 physician to treat pain conditions cause addiction and

1 dependence?

2 A Yes. Opioids that are prescribed to treat pain  
3 and used as prescribed can lead to the disease of opioid  
4 addiction.

5 Q Is there any reason to -- well, let me ask this:  
6 Are prescription opioids any less likely to cause  
7 addiction in those who take them than illicit opioids?

8 A No.

9 Q And we've talked earlier today in going through  
10 your qualifications about addiction and dependence.

11 Can you explain to the Court what addiction is.

12 A Addiction is a complex biopsychosocial disease  
13 that can be simply defined as the continued compulsive  
14 use of a substance despite harm to self and/or others.

15 Q And is that the same as opioid use disorder, or  
16 OUD?

17 A Yes. That is broadly speaking the same as  
18 opioid use disorder, opioid addiction. They're  
19 essentially synonyms. Opioid addiction is a more  
20 commonly understood lay term, but it is not the  
21 terminology used in DSM-5, which uses opioid use disorder  
22 instead.

23 Q And you also referenced earlier dependence on  
24 opioids.

25 Is that different from OUD?

26 A So dependence was singled out when the DSM-IV

1     went to the DSM-5. Previously, the word "opioid  
2     dependence" was used synonymously with the word "opioid  
3     addiction," but starting with the DSM-5, it was  
4     distinguished as referring exclusively to physiologic  
5     dependence, separate from opioid addiction per se.

6             Most individuals who become addicted to opioids  
7     are strictly dependent on opioids. But individuals can  
8     be dependent on opioids, taking them even as prescribed,  
9     without meeting the DSM-5 criteria for opioid use  
10    disorder.

11            So these are related phenomenon but, as of the  
12    DSM-5, separate and distinct.

13           Q     And what is tolerance to opioids?

14           A     Tolerance is needing more and more of an opioid  
15    to get the same analgesic response. So importantly, when  
16    we are talking about tolerance, we're not talking about  
17    habituation to side effects; we're talking about needing  
18    more opioids over time to get the same pain relief as the  
19    individual got originally.

20           The majority of patients, based on clinical  
21    experience, will develop tolerance to opioids if they  
22    take them every day for a period of time. What exactly  
23    that period of time is is not known and probably differs  
24    from individual to individual. But in my experience,  
25    most individuals who take an opioid every day for two to  
26    four weeks will develop some degree of tolerance, needing



1 more of that opioid over time to get the same effect.

2 I also think it's important to highlight that  
3 tolerance that develops to the analgesic effect of the  
4 opioid occurs more quickly than the tolerance that  
5 develops to the respiratory depressant effects of the  
6 opioids. So opioids decrease breathing, decrease heart  
7 rate. That's why people can die of them. They fall  
8 asleep and don't wake up again.

9 The central problem with opioids is that  
10 individuals will develop tolerance to their analgesic  
11 effects, and that tolerance to the analgesic effects will  
12 occur more quickly than to the respiratory depressant  
13 effects, which is why, even when taking the opioids as  
14 prescribed, patients can die from them.

15 Q Can you explain to the Court what happens in the  
16 brain when someone develops OUD.

17 A In order to understand what happens in the  
18 brain, when an individual becomes addicted to any  
19 addictive substance, it's important to talk about some of  
20 the central findings in the neuroscience in the past 75  
21 years. And the first is that pain and pleasure are  
22 colocated.

23 And by that I mean that the same part of the  
24 brain that processes pain also processes pleasure, and  
25 pain and pleasure work like a balance, like a  
26 teeter-totter on a central fulcrum. So when I experience

1 pleasure, my balance tips to one side; when I experience  
2 pain, it tips to the other side.

3           The fundamental difference between the  
4 substances that are addictive, like opioids, and those  
5 that are not is how much they tip the balance to the side  
6 of pleasure. And when they do that, they release an  
7 enormous amount of dopamine in the brain for reward  
8 pathways. Dopamine is a neurotransmitter discovered in  
9 the human brain in 1950s, and it allows neurons to  
10 communicate because neurons are separated by a little gap  
11 called a synapse, and neurotransmitters are what bridge  
12 that gap for fine-tuned control of brain circuitry.

13           One of the most important rules governing this  
14 pleasure-pain balance is that it wants to remain level,  
15 what neuroscientists call homeostasis. And the brain  
16 will work very hard to preserve or restore neutrality.

17           So when I ingest an opioid, my balance tips to  
18 the side of pleasure, I get a big release of dopamine in  
19 the brain's reward pathways, and immediately the brain  
20 will put the equivalent of weight on the pain side of the  
21 balance to bring it level again.

22           Those weights metaphorically represent what's  
23 called neuroadaptation, the downregulation of my own  
24 dopamine transmission.

25           Now, the central thing to understand is that the  
26 balance will not stop here once it obtains neutrality.

1 It will continue to tip an equal and opposite amount to  
2 the side of pain, and that is a comedown or withdrawal.  
3 If I wait long enough after a single use, those weights  
4 come off again and the neutrality or homeostasis is  
5 restored.

6 To understand what happens in the brain when  
7 people become addicted is to understand what happens when  
8 that exercise, abusing that addictive opioid, occurs a  
9 second time. With repeated use, the initial effects to  
10 the pleasure side is weaker and shorter and the  
11 aftereffect to the side of pain is longer and stronger.  
12 In other words, the balance remembered, and now it needs  
13 more weight on the pain side in order to restore  
14 neutrality.

15 If I continue to use the opioid for days to  
16 weeks to months to years, I eventually collect so much  
17 weight on the pain side of my balance that, when I am not  
18 using, I have a balance that is chronically tipped to the  
19 side of pain. I have a different brain than the brain I  
20 started with.

21 This is why individuals with addiction will  
22 relapse to substance use even months after they've  
23 stopped using, even when their lives are better, they've  
24 got their jobs back, they've got their spouse back,  
25 they're walking around with a balance tipped to the side  
26 of pain.

1           Now, theoretically, if they wait long enough --  
2   and I can tell you, it can take months and even years for  
3   all of that neuroadaptive weight to come off the  
4   balance -- then eventually homeostasis will again be  
5   restored.

6           Unfortunately, what we have learned is that,  
7   with opioid addiction, there are individuals who may  
8   never actually be able to restore homeostasis, that they  
9   may, in fact, have a broken balance such that, even after  
10   months or years of not using opioids, they continue to  
11   experience craving, insomnia, irritability, intrusive  
12   thoughts of wanting to use.

13           And those are the individuals to whom --

14           (Whereupon audio was lost by the court reporter.  
15   The Court recessed until 1:30 p.m.)

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1 AFTERNOON SESSION

2

3 THE COURT: Good afternoon, everybody. We are  
4 back on the record.

5 Dr. Lembke, I remind you that you remain under  
6 oath throughout your testimony in this case. It appears  
7 that you may be on mute; so please unmute yourself.

8 And, Counsel, you may continue.

9 MS. FITZPATRICK: Thank you, your Honor.

10 BY MS. FITZPATRICK:

11 Q Dr. Lembke, when we broke, you had been  
12 testifying about certain people that you said had a  
13 broken balance. Even after months or years of not using  
14 opioids, they continued to experience cravings. And can  
15 you tell us how people who suffer from that type of OUD  
16 are treated?

17 A There are many different types of treatment for  
18 people with opioid addiction. It's a biopsychosocial  
19 disease; so there are biopsychosocial treatments.

20 But the treatment that I was speaking of before  
21 we broke was the use of opioid agonist therapies like  
22 buprenorphine and methadone maintenance in the treatment  
23 of opioid use disorder.

24 Q And how does that type of treatment help these  
25 individuals who, as you say, have a broken balance?

26 A It's instinctively counterintuitive to think

1 about using opioids to treat an opioid addiction, but  
2 these are opioids that have unique properties which  
3 restore a homeostatic equilibrium for these individuals,  
4 so they're not constantly living with cravings,  
5 dysphoria, and the physiologic drive to want to use  
6 opioids.

7 So it reasserts homeostasis and allows them to  
8 reengage with other aspects of their lives.

9 Q And do opioids affect people who have chronic  
10 pain or for whom -- have received prescriptions for  
11 chronic pain differently than people who take opioids for  
12 nonmedically indicated purposes?

13 A The fundamental process of neuroadaptation that  
14 occurs in the brain leading to addiction is also the same  
15 process that occurs in the brain of people who are given  
16 opioids for the treatment of chronic pain.

17 One way to think about this is that people with  
18 pain are not starting out with a level balance; they're  
19 starting out with a balance tipped slightly to the side  
20 of pain. They receive opioids which temporarily relieves  
21 their pain and reasserts a kind of homeostasis. But with  
22 repeated use over periods of time, that initial effect  
23 gets weaker and shorter. That's called tolerance. And  
24 the aftereffect gets longer and stronger.

25 And eventually they too end up with a  
26 pleasure-pain balance that's weighted to the side of

1 pain. In fact, there are individuals who are on opioids  
2 long term that develop something called opioid-induced  
3 hyperalgesia, which is just a way of saying that their  
4 pain actually gets worse as a result of long-term opioid  
5 therapy.

6 And if you understand neuroadaptation and the  
7 attempt of the brain to correct for homeostasis by  
8 weighting things down to the side of pain, then it  
9 becomes more intelligible how that might happen.

10 Q Can anyone become addicted to opioids?

11 A With enough exposure for a long enough period of  
12 time, anybody could become addicted to opioids.

13 Q Are some people more susceptible to OUD, or  
14 opioid addiction, than others?

15 A Yes. People come to the problem of addiction  
16 with varying degrees of vulnerability. And some are  
17 definitely more susceptible than others.

18 Q And what are the risk factors or the factors  
19 that make people more susceptible to OUD than others?

20 A Risk factors for addiction, including opioid  
21 addiction, can broadly be categorized into nature,  
22 nurture, and neighborhood.

23 By nature, I mean that there is an increased  
24 genetic risk for becoming addicted. If you have a  
25 biological parent or grandparent with addiction, you are  
26 more likely to get addicted even if raised outside of the

1     addictive home.

2             In terms of nurture, if you grow up in a chaotic  
3     environment and you experience early childhood trauma,  
4     epigenetic risk factors can contribute to your risk of  
5     addiction.

6             Finally, in terms of neighborhood, one of the  
7     most underappreciated risks of addiction is simple access  
8     to that drug. If you live in a neighborhood where drugs  
9     are sold on the street corner, you're more likely to try  
10    them and you're more likely to get addicted to them.

11            If you go to a doctor who is liberal with their  
12    prescription pad when it comes to controlled substances,  
13    you're more likely to be exposed to opioids and then more  
14    likely to get addicted to them.

15            Q     Is there a reliable or foolproof way for a  
16    physician to determine who will develop OUD as a result  
17    of prescription opioids?

18            A     No, there is not. So, in theory, because we  
19    know retrospectively what the risk factors are for  
20    developing opioid use disorder through a doctor's  
21    prescription, we should be able to predict. But the  
22    truth is that we cannot. And various opioid risk tools  
23    or screening measures have proven to be no better than  
24    chance in determining who will and will not get addicted  
25    through a doctor's prescription.

26            Furthermore, all of those risk factors I just



1 named in terms of personal history of addiction or family  
2 history of addiction or past history of trauma, those  
3 risk factors pale in comparison to the risk of dose and  
4 duration of exposure to the opioid.

5 Q Can a person with OUD just stop taking opioids  
6 to cure that disease?

7 A The majority of individuals who have severe  
8 opioid use disorder have a great difficulty stopping  
9 opioids in the face of their disease. They can do it,  
10 but they will endure a severe acute opioid withdrawal,  
11 which for some is worse than death.

12 And as I stated before, there is this protracted  
13 abstinence syndrome, where their pleasure-pain balance  
14 remains tipped to the side of pain, driving craving and  
15 the physiologic urge to continue to use opioids.

16 Q Among patients who are treated for pain with  
17 opioids, what percentage will develop OUD according to  
18 the literature?

19 A Reliable sources show that one in four patients  
20 will develop an opioid use disorder when being treated  
21 with opioids for chronic pain.

22 Q And are the risks associated with prescription  
23 opioids limited to just the people who are prescribed  
24 opioids?

25 A No. The people who are at risk include anybody  
26 in society who has access to opioids whether or not those

1     opioids were prescribed to them. One of the things I  
2     talk about in my report is not just the gateway theory of  
3     progressing from prescription opioids to illicit opioids  
4     but also what I call the tsunami effect, the flooding of  
5     our society with more prescription opioids, conferring  
6     greater access to the population as a whole and thereby  
7     increasing the risk of the entire population towards the  
8     harms of prescription opioids, including dependence,  
9     misuse, overdose, death, and addiction.

10         Q     How does the increased supply of prescription  
11     opioids contribute to addiction and OUD rates across the  
12     population?

13         A     The more access that an individual has to a  
14     drug, the more likely they are to try that drug and to  
15     become addicted to that drug. Opioids are furthermore  
16     unique because, different from other addictive  
17     substances, opioids have been sold and marketed as  
18     medicine.

19                 Opioids also have a very low therapeutic index,  
20     meaning that the desired effect is very near the lethal  
21     effect. Furthermore, opioids have a very caustic and  
22     debilitating dependence and withdrawal syndrome, such  
23     that even when people try to stop, they're often unable  
24     to because of the severe symptoms of withdrawal that they  
25     experience.

26         Q     I am going to pull up a slide that -- well, you

1 may. Can you explain what this slide entitled  
2 "Prescription Rates Rise, Deaths and ODs Rise"?

3 What is that?

4 A This is a slide showing that, as sales of  
5 prescription opioids increased between the years 1999 and  
6 2010, so did treatment admissions for opioid addiction to  
7 treatment centers as well as opioid overdose-related  
8 deaths.

9 Q And do you have an opinion as to whether  
10 increased sale of opioids is a cause of higher rates of  
11 opioid deaths and hospitalization in the United States?

12 A Yes, I do. I think that the increased access  
13 through prescription is causal and can -- and is a  
14 significant contributor to the current opioid epidemic.

15 MS. FITZPATRICK: And can we go to Slide 5.

16 No. Other way. There we go.

17 BY MS. FITZPATRICK:

18 Q And is this a slide that you put together --  
19 it's the wrong slide.

20 Can you explain the basis for that opinion?

21 A Yes, I can. So the basis for the causality  
22 opinion is the consistency of findings across not just  
23 that data point that you showed, but multiple reports and  
24 multiple data points.

25 Also, the strength of the association. So not  
26 merely showing a very strong association between exposure

1 to prescription opioids and subsequent addiction and  
2 overdose deaths but also a causal relationship between  
3 promoting opioids to doctors in a given region and  
4 increased prescribing and overdose death in that region.

5 Beyond consistency and strength of the  
6 association, there's also the temporal sequence that  
7 exposure to opioids precedes addiction and overdose death  
8 as well as that being a biologically plausible sequence  
9 of events. Furthermore, these opinions are not merely my  
10 opinions; there are -- this is essentially the consensus  
11 opinion in medicine now.

12 If you look at the National Academies of  
13 Science, Engineering, and Medicine 2017 report, it states  
14 very clearly that the promotion and marketing of opioids  
15 led to increased prescribing, led to the current opioid  
16 epidemic. Also, the Association of Schools & Programs of  
17 Public Health, a consortium of over 100 public health  
18 programs in the country, including public health programs  
19 in California, has also written an important treatise on  
20 this topic expressing the same opinion.

21 Q Is that the same in California?

22 A Yes.

23 Q And going back to the use of prescription  
24 opioids, can even a limited use of prescription opioids  
25 lead to OUD?

26 A Yes. There are data showing that even a single

1 prescription of an opioid in the course of medical and  
2 dental treatment can increase the risk of developing  
3 opioid use disorder within that year. Also, we know that  
4 even a brief exposure to opioids for the treatment of  
5 acute pain can, in 5 to 10 percent of individuals, lead  
6 to persistent opioid use a year to three years later.  
7 And it's important to recognize that persistent opioid  
8 use increases the risk of developing opioid addiction.

9 So the longer the duration of exposure to  
10 prescription opioids and the higher the dose of those  
11 prescription opioids, the greater the risk of developing  
12 addiction and of dying from those opioids.

13 Q Dr. Lembke, are you familiar with what's been  
14 called abuse-deterrent formulations for prescription  
15 opioids?

16 A Yes, I am.

17 Q Can you tell the Court what those are?

18 A Those are formulations of opioids that are  
19 crush-resistant, serving as a deterrent for crushing and  
20 snorting and crushing and injecting, two ways in which  
21 people who misuse opioids will misuse them.

22 Q And can taking an abuse-deterrent formulation of  
23 an opioid as prescribed by your physician lead to OUD or  
24 opioid dependence?

25 A The most common way that people get addicted to  
26 prescription opioids is to take them exactly as

1     prescribed, which is to say, if they're prescribed  
2     orally, then they take them orally and they misuse them  
3     orally and they become addicted to them orally.

4           Q     Doctor, I want to shift a little bit, change  
5     topics to something that you called the paradigm shift.  
6     How were prescription opioids used before the 1990s in  
7     the United States?

8           A     Prior to the 1990s doctors used opioids  
9     sparingly for surgery, severe trauma, and end of life.

10          Q     Okay. And why was it used sparingly at that  
11     time?

12          A     There was widespread recognition and  
13     understanding that opioids are highly dangerous drugs and  
14     highly addictive. And doctors were reluctant to give  
15     their patients an addiction to opioids.

16          Q     And in the 1980s was there a discussion in the  
17     medical community suggesting that opioids should be used  
18     less conservatively?

19          A     Yes. In the 1980s, there began to be  
20     recognition in the house of medicine that we were not  
21     doing a very good job treating pain. This was also the  
22     advent of the hospice movement imported from Europe  
23     advocating for more care of patients at the end of life.

24                 There were certain individuals inside of  
25     medicine, key academic thought leaders, who began to  
26     advocate for more liberal use of opioids in the treatment

1 of pain in order to help people with their suffering.  
2 But there was not much data to support that. There were  
3 a few not-very-robust data points in the '80s and '90s.  
4 And so the prescribing did not appreciably increase in  
5 those decades.

6 Q Did there come a point in time that the  
7 prescribing started to -- the prescribing of opioids for  
8 pain started to appreciably increase?

9 A The late 1990s, early 2000s represents the  
10 beginning of the paradigm shift when opioid prescribing  
11 went up, quadrupling between 1989 and approximately 2012  
12 across the United States nationally. That increase in  
13 opioids was because opioids became first-line treatment  
14 for almost any patient in pain. And doctors pushed the  
15 dose from modest and conservative low doses to very, very  
16 high doses such that it was not uncommon in that first  
17 decade and beyond to see patients on 2,000 morphine  
18 milligram equivalents daily for the treatment of their  
19 pain.

20 Q And when you use the term "paradigm shift," can  
21 you explain to the Court what you mean by that?

22 A What I mean by that is the standard of care for  
23 how to target pain in the healthcare community shifted  
24 over time. And that was accomplished through a number of  
25 ways but primarily by false and misleading messaging  
26 infiltrating the very governing bodies, professional

1 medical societies, and enforcement agencies that were  
2 meant to protect people from the harms of opioids.

3 MR. BRODY: Your Honor, I'd move to strike.  
4 Lack of foundation.

5 THE COURT: Just a moment.

6 I am mindful of the motions in limine,  
7 Ms. Fitzpatrick. You have laid an extensive foundation.  
8 You have not laid a foundation for the marketing false  
9 and misleading opinions. The foundation objection is  
10 sustained and the last answer is stricken.

11 You may restate the question or lay a  
12 foundation.

13 MS. FITZPATRICK: Thank you, your Honor.

14 BY MS. FITZPATRICK:

15 Q And, Dr. Lembke, when we were talking before  
16 about your qualifications, have you, prior to being  
17 retained as an expert by the People in this case, done  
18 independent research into whether there's a causal  
19 relationship between what you called false and misleading  
20 messages by the pharmaceutical industry and an increase  
21 in the availability of prescription opioids throughout  
22 the United States?

23 A Yes, I have. And that's in my book that was  
24 published in 2016.

25 Q And can you tell the Court how you went about  
26 doing your research for that particular proposition?



1           A       I studied the medical literature, including  
2       government documents and what was in the lay press,  
3       attesting to the role of the opioid pharmaceutical  
4       industry in terms of their courting key opinion leaders,  
5       working together with the Federation of State Medical  
6       Boards, the relationship that they had with organizations  
7       like the Joint Commission, organizations like the Pain &  
8       Policy Study Group, publications that were put out in  
9       collaboration between the opioid pharmaceutical industry,  
10      opioid manufacturers, including defendants, and key  
11      opinion leaders who they promoted and professional  
12      medical societies, all of which resulted in drawing the  
13      medical community's attention to the promotional messages  
14      that they wanted to promote in the morass of messages  
15      that physicians have to wade through every day in order  
16      to figure out what the science is. So they essentially  
17      used that strategy to portray marketing as science.

18               MR. BRODY: Your Honor, I'd move to strike the  
19      last answer for lack of foundation. And also it's  
20      case-specific hearsay.

21               THE COURT: The answer isn't providing -- the  
22      answer did not discuss, really, the foundation, but  
23      restated -- or began to restate opinions.

24               The question also -- and perhaps the -- the  
25      question was misunderstood. The objection to the  
26      previous question related to an opinion being expressed

1 about false and misleading messaging.

2 That work was done to understand what the  
3 opioid -- the pharmaceutical industry might have done  
4 still does not lay a foundation or discuss what was done  
5 to investigate or form a basis for opinions about the  
6 content being false and misleading.

7 Ms. Fitzpatrick, the last answer is stricken.  
8 You may start again.

9 BY MS. FITZPATRICK:

10 Q Let me -- let me try it this way: Dr. Lembke,  
11 you had testified about the increase in prescriptions  
12 between 1998 and 2012. Can you explain to the Court what  
13 happened after 2012 with respect to the prescription of  
14 opioids?

15 A You mean in terms of the number of  
16 prescriptions?

17 Q I'm sorry. Yes, in terms of the number of  
18 prescriptions.

19 A Okay. So starting in 2012, the number of --

20 THE COURT: Dr. Lembke, I'm sorry to interrupt.  
21 Before I hear your opinion as to what happened, I'd like  
22 to understand the investigation, research work that you  
23 did in order to be able to express that opinion. So I  
24 need to understand what the source of your information is  
25 before I hear the opinion itself.

26 THE WITNESS: Thank you, your Honor. I would

1     like to answer that.

2                 So I was the recipient, as were my colleagues,  
3     of these marketing messages. And I looked at the  
4     marketing messages. So I investigated them independently  
5     prior to my involvement in this litigation, and I  
6     compared those messages with the science in the medical  
7     literature in order to explore whether or not those  
8     messages represented the real data.

9                 And the conclusion that I came to was that they  
10    were false and misleading.

11                Furthermore, I, in the course of writing my book  
12    Drug Dealer, MD, interviewed patients and providers about  
13    their experiences with these messages and how they  
14    interpreted them and the impact that the messages had on  
15    their prescribing. And that information, I then  
16    subjected to a qualitative analysis which led me to my  
17    current conclusions and which I do talk about in my book.

18                THE COURT: Ms. Fitzpatrick?

19                BY MS. FITZPATRICK:

20                Q     Dr. Lembke, let's go back to your opinions  
21    concerning the increase in the use of opioids between  
22    2012 -- or after 2012.

23                Can you describe to the Court whether there was  
24    an increase in opioid use after 2012?

25                A     So I -- in 2012 prescription opioids started to  
26    go down slowly. Around that time, overdose deaths

1 related to heroin went up. And around 2015-2017, there  
2 was a spike in fentanyl-related overdose deaths.

3 Prescription opioid-related overdose deaths went  
4 down and/or plateaued during that time period between  
5 about 2012 and 2017 but did not decline -- did not  
6 considerably decline.

7 Q And did the increased access to prescription  
8 opioids between 1998 and 2012 lead to an increase in  
9 dependence, OUD, overdose, and death?

10 MR. KABA: Objection, your Honor; foundation.

11 THE COURT: Overruled.

12 THE WITNESS: The increased access to  
13 prescription opioids between 1999 and 2012 was, I  
14 believe, the biggest causative factor in the increase in  
15 opioid addiction and overdose death.

16 BY MS. FITZPATRICK:

17 Q And can you explain to the Court what the term  
18 "morphine milligram equivalent," or MME, is?

19 A It's a way of comparing different opioids that  
20 have different strengths, the different potencies. So  
21 using morphine as the baseline, it's a way of then  
22 comparing and contrasting the actual amount of opioids  
23 that individual was getting by linking it all back to how  
24 much that would be in milligrams of morphine.

25 Q And based on the research and your methodology  
26 that you explained to the Court, have MMEs declined to

1 the same extent as the prescription units that you  
2 discussed earlier since 2012?

3 A No, they have not. In 1999 -- or 1997, United  
4 States physicians were writing prescriptions that equated  
5 to approximately 100 morphine milligram equivalents per  
6 person. By 2007, that had increased to 700 morphine  
7 milligram equivalents per person. And by 2017, that had  
8 decreased to approximately 550 morphine milligram  
9 equivalents per person, still five times the amount of  
10 morphine prescribed -- or the amount of opioids  
11 prescribed in 1997.

12 Q Dr. Lembke, I want to turn to -- well, let me  
13 ask what's the significance of MMEs not declining to  
14 the -- at the same rate as the actual number of  
15 prescriptions?

16 A The significance there is that, in order to  
17 appreciate the extent of the increased prescribing, it's  
18 important not just to look at the numbers of  
19 prescriptions written per person but also how high those  
20 doses were.

21 One of the big shifts in terms of this paradigm  
22 shift was this idea that no dose is too high, that if a  
23 patient comes in saying that the analgesic effects have  
24 worn off, you can just go up on the dose and continue to  
25 go up and continue to go up with impunity and without  
26 increasing risk, which is how we got to the place where,

1 by 2007, we were prescribing 700 morphine milligram  
2 equivalents per person in the United States.

3 And just to put that into perspective, the  
4 average opioid-addicted person who gets methadone  
5 maintenance from a methadone maintenance clinic is on  
6 approximately 100 to 150 morphine milligram equivalents  
7 daily. So as a patient with pain seeing a doctor, you  
8 could get seven times the amount of effective opioids on  
9 a regular basis as you would get from a methadone  
10 maintenance clinic.

11 Q So, Dr. Lembke, I want to turn to the messaging  
12 around opioids, which was part of your opinions here.

13 You heard Dr. Perri testify about certain common  
14 promotional messages that were used by the four  
15 defendants in this case, correct?

16 A Yes, I did.

17 Q And have you reviewed substantially similar  
18 messages to those identified by Dr. Perri to determine  
19 whether those claims that are made in those messages are  
20 supported by the medical and scientific evidence and  
21 literature?

22 A Yes, I have.

23 Q And you did that as part of your research for  
24 your book and the work that you were doing prior to being  
25 retained as an expert by any government entity in opioid  
26 litigation, correct?

1           A       Yes, I did.

2           Q       And let me pull up the next slide.

3                   Are these the misrepresentations that Dr. Perri  
4 identified and that you have seen in the promotional  
5 messages that you considered and analyzed in this case?

6           A       These are the messages that I considered and  
7 analyzed, yes.

8           Q       Okay. And what I want to do is go through each  
9 of those messages separately and talk about the  
10 scientific or medical evidence related to those messages.  
11 So if what we do is -- let's take the first one, which  
12 you've identified as misrepresentation number one,  
13 "Addiction to opioids prescribed for treatment of pain is  
14 rare."

15          A       Yes.

16          Q       Dr. Lembke, you testified a little bit earlier  
17 that about one in four people who are prescribed opioids  
18 will develop some form of OUD; is that correct?

19          A       Yes, that's correct.

20          Q       Okay. And can you explain -- can you elaborate  
21 on that a little bit more for the Court?

22          A       Sure. The most robust resource for this to date  
23 is the Vowles, et al., article, showing that 21 to  
24 29 percent of pain patients prescribed an opioid will  
25 misuse that opioid. And 8 to 12 percent of those  
26 individuals will develop a moderate to severe opioid use

1 disorder.

2 Vowles is a highly reliable source because it  
3 included a high number of studies, 38 studies; because it  
4 didn't use arbitrary quality measures but included  
5 multiple studies; and that, in fact, compared the  
6 aggregate results to the highest-quality studies and  
7 found that the highest-quality studies of the 38 studies  
8 had a consistent finding. The Vowles authors furthermore  
9 did not have any conflicts of interest.

10 Q Let me step back a little bit and just break  
11 this down. Rates of misuse averaged between 21 and  
12 29 percent. What does rates of misuse represent here?

13 A So misuse in its simplest definition means using  
14 an opioid differently than how the doctor prescribed it.  
15 But in the Vowles study, their definition and measures of  
16 opioid misuse correspond very closely with the DSM  
17 criteria such that I believe that their opioid misuse  
18 category is consistent with mild opioid use disorder  
19 using the DSM-5 criteria.

20 And so -- sorry.

21 Q That's okay.

22 What is mild opioid use disorder?

23 A So the DSM-5 has 11 criteria to define and guide  
24 the diagnosis of opioid use disorder. And opioid use  
25 disorder is diagnosed on a spectrum, meaning that you can  
26 have a mild, moderate, or severe form depending upon how



1 many criteria are met.

2 So two to three criteria gives you a mild opioid  
3 use disorder, four to five is a moderate opioid use  
4 disorder, and six or more is a severe opioid use  
5 disorder, with some qualifications.

6 Q And, Dr. Lembke, can we go ahead -- can you  
7 identify for the Court the full title of the study that  
8 you were referring to here.

9 A Oh, at the bottom you see sources Vowles, et  
10 al., "Rates of Opioid Misuse, Abuse, and Addiction in  
11 Chronic Pain: A Systematic Review and Data Synthesis,"  
12 published in 2015.

13 Q Where was this published?

14 A It was published in the journal Pain.

15 Q If you go up to this slide, "Across most  
16 calculations, rates of misuse average between 21 to  
17 29 percent." And underneath it says, "Range, 95 percent  
18 confidence interval 13 to 38 percent."

19 Can you tell me what that means?

20 A That means that, although there's a range of  
21 results, we can be confident that the range occurs  
22 within -- that the true result occurs within that range.

23 Q So the true result occurs between 13 and  
24 38 percent; is that right?

25 A Yes.

26 Q And then going on to rates of addiction average

1     between 8 and 12 percent.

2                 Is that the severe OUD or moderate to severe OUD  
3     that you were talking about?

4             A     Yes, it is.

5             Q     And what is that confidence interval range?

6             A     That means that we can -- with 95 percent  
7     surety, we can know that the true range is between 3 and  
8     17 percent.

9             Q     And you had identified -- tell us why you relied  
10    on this particular study for your conclusions concerning  
11    the rates of both mild OUD and moderate to severe OUD in  
12    pain patients.

13            A     Again, because they included a large number of  
14    studies. 38 is a large number of studies for this  
15    subject in terms of a meta-analysis. The authors had no  
16    conflicts of interest --

17                 THE COURT: Dr. Lembke, I did already hear your  
18    explanation. Thank you.

19                 Ms. Fitzpatrick?

20                 MS. FITZPATRICK: I want to turn to the next  
21    slide, Jon.

22                 BY MS. FITZPATRICK:

23             Q     Okay. And can you tell the Court what this  
24    slide represents.

25             A     This slide is a timeline showing what was known  
26    when in terms of the rates of addiction to prescription

1     opioids among pain patients being prescribed opioids.  
2     And importantly what it shows is that, dating back as  
3     early as 1970s, there were studies showing that --  
4     showing rates of as high as 24 percent of developing  
5     addiction in a pain population being treated with  
6     medicinal opioids.

7             You'll note that the second value is  
8     0.03 percent, and that is the now infamous Porter and  
9     Jick study that was referenced by the industry to support  
10    the claim that the risk of addiction to opioids is rare  
11    or less than 1 percent in individuals who are getting  
12    prescribed opioids by a doctor. So that is not a  
13    reputable data point.

14            But even that aside, you'll see there's a broad  
15    range of findings here, but all the findings are well  
16    above the less than 1 percent that was attested to by the  
17    Porter and Jick. Furthermore, the Vowles article  
18    incorporates many of the studies listed here.

19            Q     Now, turning to the next slide, what does the  
20    World Health Organization consider to be rare for an  
21    adverse event frequency in a pharmaceutical?

22            A     The World Health Organization has provided this  
23    conceptual diagram for understanding when an adverse  
24    outcome is rare versus common. And as you can see, very  
25    common is greater than or equal to 1 in 10, common is  
26    greater than 1 in 100, et cetera, and very rare or rare

1 is less than 1 in 10,000 or greater than 1 in 10,000,  
2 less than 1,000.

3 The findings for the risk of addiction among  
4 chronic pain patients or pain patients being treated for  
5 opioids by any measure is not rare.

6 Q And does that include the 8 to 12 percent for  
7 the moderate to severe OUD?

8 A Yes. So that would -- that would suggest, then,  
9 that the true rate of becoming addicted to opioids when  
10 getting them from a doctor for a pain condition is common  
11 or very common.

12 Q And did you review some of the marketing and  
13 promotional claims by the defendants in this case  
14 concerning the rates of addiction to opioid medication?

15 A Yes, I did.

16 Q Okay. And I want to turn to the next slide.  
17 And these are documents that are already in evidence in  
18 this case.

19 Are these some of the examples that you picked  
20 that demonstrate a common message among the defendants in  
21 this case that addiction to opioids prescribed for  
22 treatment of pain is rare?

23 MS. FEINSTEIN: Objection, your Honor. The  
24 Fentora document referred to on this slide has not yet  
25 been entered into evidence. So I'll object on the basis  
26 of foundation and facts not in evidence.

1 MS. FITZPATRICK: Thank you.

2 Your Honor, that is my error.

3 Let's pull up 1367, Jon.

4 BY MS. FITZPATRICK:

5 Q Doctor, can you take a look at the document  
6 that's before you. And it will be in your Magna file too  
7 if you want to take a look at it in more detail. If you  
8 turn to second page, of this, Jon.

9 Do you recognize this document?

10 A Yes, I do.

11 Q And can you tell the Court what this document  
12 is?

13 A This is a document that was used internally to  
14 train sales representatives on Fentora.

15 MS. FITZPATRICK: Your Honor, I'm understanding  
16 there's no objection to the admission of this document.  
17 So the People will move P-CA-1367 into evidence at this  
18 time.

19 THE COURT: Any objection?

20 MS. FEINSTEIN: No objection, your Honor. Thank  
21 you.

22 THE COURT: P-1367 is admitted.

23 (Whereupon, Plaintiff's Exhibit No. 1367 was  
24 received in evidence.)

25 MS. FITZPATRICK: Jon, can you go back to the  
26 slide that we had up.

1 BY MS. FITZPATRICK:

2 Q And you do notice that the P-CA-1367 is in the  
3 top left-hand section of this slide. Can you explain to  
4 the Court what the four boxes on this slide represent?

5 A These represent false or misleading messages on  
6 the part of defendants that purported to claim that  
7 addiction to opioids prescribed for the treatment of pain  
8 is rare.

9 Q And why did you choose these examples?

10 A These examples were just emblematic of many of  
11 the documents that I reviewed.

12 Q And do you remember what the Kadian learning  
13 system is?

14 A Yes, I do.

15 Q All right. Can you tell the Court why you chose  
16 something from the Kadian learning system for this -- we  
17 lost the slide -- the Kadian learning system for an  
18 example here of what you call Misrepresentation Number 1?

19 A The Kadian learning system, like the Fentora  
20 "Introduction to Pain," was a document that was used  
21 internally to train sales reps, different from, for  
22 example, the "Finding Relief" document on this slide,  
23 which was a patient-facing document on the Duragesic  
24 website, which was a public-facing website.

25 I thought it was important to look not just at  
26 internal training documents but also to patient-facing

1 documents to explore the synchronicity or not between the  
2 messages that were being communicated to sales reps and  
3 to patient consumers and prescribers directly.

4 Q And what do you mean by "synchronicity"?

5 A To see what was being said to sales reps versus  
6 what was being said to prescribers and patient consumers.  
7 And what I found was that these false and misleading  
8 messages could be found in all of those places.

9 MS. FITZPATRICK: And if we turn to the next  
10 slide, Jon.

11 BY MS. FITZPATRICK:

12 Q And is this an example --

13 A I'm sorry. Do I have an opportunity to talk  
14 about those misleading messages?

15 Q We are going to. We'll go back to it, but I  
16 just wanted to identify this one as well.

17 Is this, the "Finding Relief Pain Management for  
18 Older Adults," is this something that you selected as  
19 well as an example of these what you call  
20 Misrepresentation Number 1?

21 A Yes.

22 Q Okay. And can you tell the Court what was  
23 significant about this document?

24 A Again, this was a patient-facing document that  
25 Janssen put together in collaboration with the American  
26 Geriatric Association. And I think what's striking here

1 is that the very myth that Janssen, in collaboration with  
2 the American Geriatric Association, acclaimed to be  
3 untrue are much closer to the truth than what they stated  
4 as fact. And I'm happy to go through them if you'd like.

5 Q I'd like you to start with the first myth,  
6 "Opioid medications are always addictive."

7 A Okay. So opioid medications are not always  
8 addictive, but they are often addictive. It is very  
9 common for patients to get addicted when exposed to a  
10 doctor's prescription. And it is simply not true that  
11 many studies show that opioids are rarely addictive when  
12 used properly for the management of chronic pain. Again  
13 I cited the Vowles study, which is the meta-analysis for  
14 that.

15 It states here as a myth that opioids make it  
16 harder to function normally --

17 Q Let me ask you a question about that. The  
18 Vowles study that we discussed, that was an analysis of  
19 multiple different studies that had been reported in the  
20 medical literature, correct?

21 A Yes. It was a meta-analysis.

22 Q And did any of those studies, independently and  
23 independent of the Vowles study, indicate that opioids  
24 are rarely addictive when using the World Health  
25 Organization standard for rare?

26 A Only the Porter and Jick, which is not a real



1 study. It was a letter to the editor based on a  
2 single-point observation of hospitalized patients, many  
3 of whom had received only a single dose of an opioid.

4 Q And do you consider the Porter and Jick letter  
5 to the editor to be a reliable source for basing what you  
6 have called evidence-based medicine?

7 A No.

8 Q And why not?

9 A As I said, it was based on a hospitalized  
10 population of individuals, many of whom were exposed to  
11 opioids only briefly, some with just a single dose. That  
12 can hardly be compared to outpatients receiving opioids  
13 at high dose for long duration.

14 Q And let's go to the second -- what is called  
15 here by Janssen a myth. "Opioids make it harder to  
16 function normally," and underneath it says "The Facts."

17 Can you explain to the Court whether that fact  
18 has basis in the medical and scientific literature?

19 A Yes. So this is important because it's a claim  
20 for increased function and improved function and improved  
21 quality of life on the part of Janssen, which is not  
22 supported by any evidence.

23 And, by the way, quality of life measures are  
24 very strictly considered in the scientific literature.  
25 It's not a claim that can be made easily by any  
26 pharmaceutical manufacturer.

1           And, in fact, opioids can make it harder to  
2   function normally. And, you know, for example, in my  
3   report I talk about workers' compensation data showing  
4   that individuals in California who went on medical leave  
5   for workers' compensation and received opioids for their  
6   injury or their pain were less likely to return to work  
7   than individuals who received no opioids for similar  
8   conditions.

9           Q     And then the last myth here is that "Opioid  
10   doses have to get bigger over time because the body gets  
11   used to them." And underneath is "The Fact" that "Unless  
12   underlying cause of your pain gets worse, such as with  
13   cancer or arthritis, you will probably remain on the same  
14   dose or need only small increases over time."

15           Can you tell the Court whether there is support  
16   in the medical and scientific literature for that fact as  
17   identified in this "Finding Relief Pain Management for  
18   Older Adults"?

19           A     Yes. So I think it's really important to  
20   understand that there is good evidence for the use of  
21   opioids in the treatment of pain short term. But the  
22   fundamental problem with using opioids daily over a  
23   longer period of time -- longer being more than 12 weeks,  
24   which is what we have definitionally used as the duration  
25   of chronic pain, that period of time after which normal  
26   tissue healing would have occurred -- that opioids

1     physiologically lose their ability to provide analgesia  
2     because of tolerance, which is why patients need to go up  
3     and up and up on their dose over time.

4             It is untrue to say that increasing the dose of  
5     the opioid over time is a result of the progression of  
6     the pain condition getting worse. That is potentially  
7     true, but the primary reason that opioid doses need to go  
8     up over time is because of the development of tolerance,  
9     which is almost universal.

10           Q     And, Doctor, I want to go back to the slide  
11     before. And without reading these documents, which the  
12     Court has seen and which are in the record, can you  
13     explain the messaging that is contained in these examples  
14     that you chose for this slide?

15           A     Yeah. So I want to start with the first one on  
16     the left that starts "like patients."

17             Your Honor, I think the keywords here are  
18     "Caregivers may need reassurance." This really speaks to  
19     the paradigm shift, the fact that prescribers were wary  
20     to use opioids for good reason, but that the opioid  
21     pharmaceutical industry reassured them against the  
22     evidence and against, frankly, common sense that they  
23     could use opioids. And they did so in part by making a  
24     distinction between what they called legitimate medical  
25     reasons or legitimate pain patients and individuals who  
26     are addicts, diverters getting drugs from the street.

1           Furthermore, I'll draw your attention to their  
2     saying that physical dependence to a drug is easily  
3     overcome through scheduling dosing decreases. There is  
4     nothing easy about getting an opioid-dependent patient  
5     off of opioids.

6           I am working with patients now who are on year  
7     three of their opioid taper. It is incredibly burdensome  
8     for them, for providers, for the healthcare system. And  
9     there is significant morbidity and mortality associated  
10    with dependence.

11          Q     Dr. Lembke, if I can just make sure that the  
12    record is clear that what you're referring to here is  
13    excerpts from P-CA-1367 --

14          A     Yes.

15          Q     -- P-CA-001687, JAN-CA-602365, and P-CA-000251.  
16    Is that right?

17          A     Yes, it is.

18          Q     And focusing on the issue of whether addiction  
19    to opioid prescribed for the treatment of pain is rare,  
20    did you reach an opinion on whether the promotional  
21    messages that have been identified were false and  
22    misleading?

23          A     Yes. I believe these promotional messages are  
24    false and misleading.

25          Q     And in addition to the ones that you've  
26    identified on these two slides that we've identified in

1 the record, did you see examples of similar messaging  
2 related to risk of addiction from opioids in the other  
3 promotional material that you reviewed?

4 A Yes, I did.

5 Q And are they consistent messages across multiple  
6 promotional channels, I will call them?

7 MR. KABA: Objection, your Honor. Vague.  
8 Foundation.

9 THE COURT: On vague, it's sustained.

10 BY MS. FITZPATRICK:

11 Q Do you have an opinion, Dr. Lembke, as whether  
12 the statement that the risk of addiction was rare was a  
13 cause of more people being exposed to a larger supply of  
14 prescription opioids in California?

15 MR. KABA: Objection, your Honor. Lack of  
16 foundation.

17 MS. FEINSTEIN: Objection. Foundation.

18 THE COURT: On foundation, sustained.

19 BY MS. FITZPATRICK:

20 Q Dr. Lembke, have you offered testimony to the  
21 United States Congress on your research concerning  
22 these -- this type of marketing misrepresentation, or  
23 what you call a misrepresentation, that the risk of  
24 addiction was rare?

25 A Yes.

26 Q Okay. And have you offered -- have you been

1 invited to give testimony to the United States Congress  
2 on whether that statement or that marketing message was a  
3 cause of more people being exposed to a larger supply of  
4 prescription opioids?

5 MR. KABA: Objection, your Honor. Relevance.

6 THE COURT: Sustained.

7 MS. FITZPATRICK: Your Honor, I'm laying the  
8 foundation that this is part of the work that she has  
9 done and the research that she has done outside of this  
10 case.

11 THE COURT: That the same opinion is expressed  
12 somewhere else adds nothing to the foundation for the  
13 opinion. The objection is not to the witness potentially  
14 having said the same thing elsewhere but to the  
15 foundation for the opinion.

16 The objection to foundation is sustained. You  
17 may, of course, attempt to lay a foundation. And the  
18 foundation is not "I've said it before" or "I've said it  
19 often."

20 BY MS. FITZPATRICK:

21 Q Dr. Lembke, have you done independent research  
22 to determine whether there's a correlation between the  
23 statements -- the marketing message that the risk of  
24 addiction to opioids is rare and whether that was a cause  
25 of more people being exposed to a larger supply of  
26 prescription opioids? Have you done that research?

1           A       Yes, I have.

2           Q       And can you explain to the Court how you did  
3       that research?

4           A       I looked at the medical literature and I looked  
5       at what the science actually showed about the risk of  
6       addiction in patients being treated with opioids for  
7       pain, and I compared that to the marketing messages to  
8       see whether or not those messages were consistent with  
9       the evidence in the literature.

10                   And my conclusion was that those messages are  
11       not --

12                   MR. BRODY: Your Honor, I'm sorry. I object to  
13       a statement of the conclusion. The question was simply  
14       whether -- how she did the research. I'd have a  
15       foundation objection.

16                   THE COURT: The question as present is limited  
17       to what research was done to support an opinion.

18                   BY MS. FITZPATRICK:

19           Q       Dr. Lembke, before you get to the opinions, I  
20       don't want you to offer the opinions until the Court  
21       allows us to do so and if the Court allows us to do so.  
22       So I'm just asking you about the research that you did.

23                   Is the type of research that you did into that  
24       question consistent with the way research is done in your  
25       field of expertise?

26           A       Yes.

1 Q And can you explain that to the Court, please.

2 A To deeply explore the science and the medical  
3 literature and to come to a conclusion based on the  
4 weight of the evidence is a standard way to evaluate the  
5 literature.

6 Q And is that the type of research that you do in  
7 conjunction with your appointment at Stanford University?

8 A Yes, it is.

9 Q And earlier I think you said three legs on the  
10 stool of the position that you hold at Stanford  
11 University. Is that right?

12 A Um-hum, yes.

13 Q Is one of those research?

14 A Yes, it is.

15 Q And in conjunction with that appointment at  
16 Stanford and the research that you did, have you  
17 researched this particular question?

18 A Yes, I have.

19 Q And is the way that you've researched this  
20 particular question which you've described to the Court  
21 consistent with the way that medical and scientific  
22 research is done in your field of expertise and in  
23 conjunction with your appointment at Stanford University?

24 MR. KABA: Your Honor, I'm just going to object  
25 on vagueness grounds because at this point I don't know  
26 what this particular question is referring to.



1 THE COURT: Ms. Fitzpatrick, or directly to the  
2 witness, some confusion at the moment, certainly in my  
3 mind, is as follows: The witness, earlier on in the  
4 testimony, had a slide presented that contained a list of  
5 misrepresentations. Not purporting to identify all of  
6 them, but one was that addiction is rare; two was that  
7 opioid use disorder could just be pseudoaddiction; and so  
8 on.

9 The question at the moment is focused on the  
10 contention that to say that addiction is rare is a false  
11 and misleading statement.

12 Is the question whether the doctor isolated that  
13 one misrepresentation from the others and is expressing  
14 an opinion that that misrepresentation, that a standalone  
15 misrepresentation that addiction is rare, itself caused  
16 an increase in prescriptions? And if so, what's the  
17 basis for that opinion?

18 MS. FITZPATRICK: Your Honor, in the motions in  
19 limine there was no motion in limine that was raised as  
20 to whether Dr. Lembke could testify about whether these  
21 particular misrepresentations that we're going to go  
22 through were supported by the medical and scientific  
23 literature.

24 What I'd like to go through is, having  
25 established this misrepresentation as her opinion that it  
26 is false and misleading, is the effect of that type of

1     messaging on the medical community and on the prescribing  
2     behaviors of physicians.

3             THE COURT: Ms. Fitzpatrick, I understand that.  
4     My question is narrower. Is your question intended to  
5     elicit from Dr. Lembke that she investigated the issue of  
6     rareness -- that addiction is rare -- separate from the  
7     other causes or as one of the factors which, in her  
8     opinion, caused the increased writing of prescriptions?

9             MS. FITZPATRICK: The question is whether it's  
10    one of the factors, your Honor.

11            THE COURT: That's not how the question was  
12    framed. And if the doctor is answering it and purporting  
13    to lay her foundation, she needs to make clear whether  
14    she's laying a foundation for an opinion that a falsity  
15    about addiction being rare by itself caused an increase  
16    and, if so, what's the basis; or that it's one of the  
17    causes of the factors. And even then, precisely what she  
18    did to connect the dots between "I see false  
19    misrepresentations on the issue of it being rare and is  
20    causal, and the work I did to determine it was causal is  
21    as follows."

22            MS. FITZPATRICK: Thank you, your Honor. I  
23    think what we'll do is we will go through the  
24    misrepresentations, and then I will ask about the causal  
25    effect of the misrepresentations collectively at the end.

26            BY MS. FITZPATRICK:

1           Q     Dr. Lembke, let me turn to the second  
2     misrepresentation.

3                     If we could go back to that slide, Jon, Slide  
4     Number 5. Yes, Slide Number 6.

5                     What did you identify as the second  
6     misrepresentation?

7           A     That many patients exhibiting symptoms of opioid  
8     use disorder are suffering from pseudoaddiction.

9           Q     Now, have you heard the term "pseudoaddiction"  
10    before your work in OUD and opioid addiction?

11          A     I'm not sure I understand your question.

12          Q     When did the term "pseudoaddiction" first appear  
13    in the medical literature?

14          A     I'm not remembering exactly when it first  
15    appeared. It was in the context of a case report  
16    coauthored by David Haddox. This case report described  
17    an individual who was exhibiting signs and symptoms  
18    consistent with an opioid addiction who the authors of  
19    the report then determined that he, in fact, had what  
20    they call pseudoaddiction. He was in pain, and that the  
21    appropriate remedy was to simply go up on the dose.

22                     So that was the only data point that introduced  
23    that term. It was not based, for example, on any kind of  
24    rigorous science. It was a made-up term in a case  
25    report.

26          Q     And have you done an investigation to reach a

1 conclusion in this case as to whether there's a valid  
2 medical basis for the condition identified as  
3 pseudoaddiction?

4 A Yes. I've reviewed the literature on  
5 pseudoaddiction, and there is no valid scientific basis  
6 for pseudoaddiction. So this slide shows that that case  
7 report was published in 1989 by David Haddox. And also  
8 in --

9 Q If you can, we have to do it by question and  
10 answer, if you don't mind, Dr. Lembke.

11 Can you tell me about the 2018 study that you  
12 have identified as a basis for your opinions on this  
13 issue of pseudoaddiction?

14 A Yeah. So this was an article looking at the  
15 term "pseudoaddiction" in the medical literature and  
16 concluding that there was no empirical evidence to  
17 justify a diagnosis of pseudoaddiction.

18 Q And what was the recommended treatment for  
19 pseudoaddiction in patients who were prescribed opioids  
20 for pain?

21 A Right. So in the false and misleading messages,  
22 the implied and/or explicit recommendation for  
23 pseudoaddiction was to simply go up on the dose of  
24 opioids.

25 Q And --

26 MR. KABA: Objection, your Honor. Move to

1 strike, again foundation. And I'm just going to reassert  
2 my vagueness objection as to who are the individuals or  
3 entities with these messages?

4 THE COURT: Overruled.

5 BY MS. FITZPATRICK:

6 Q And turning to some of the promotional messages  
7 from the defendants in this case, did you look through  
8 the promotional messaging from these defendants in this  
9 case to find examples of the use of the term  
10 "pseudoaddiction"?

11 A I would phrase it a little differently. I would  
12 say I looked at promotional messages. And in the course  
13 of looking at their promotional material, I found  
14 frequent references to pseudoaddiction.

15 MS. FITZPATRICK: And if we can go to the next  
16 slide, Jon.

17 BY MS. FITZPATRICK:

18 Q And are these some of the examples that you  
19 found of the use of the term "pseudoaddiction" from these  
20 particular defendants in their promotional messaging?

21 A Yes, these are examples.

22 Q And each of those -- yeah, each of these  
23 documents is in evidence.

24 They are P-CA-399 and P-CA-251, for the record.

25 Can you tell the Court what the oxymorphone  
26 learning system is?

1           A       The oxymorphone learning system was a document  
2       used internally to train sales representatives on how to  
3       think about and talk about these concepts with  
4       prescribers.

5           Q       And what was the Kadian learning system?

6           A       Similarly, the Kadian learning system was used  
7       to train sales reps on how to understand these concepts  
8       and how to communicate them to prescribers.

9           Q       And why did you choose these examples from  
10       P-CA-399 and P-CA-251 for your testimony today?

11          A       These were classic examples of how  
12       pseudoaddiction appeared in internal marketing material  
13       or training material.

14          Q       Are these the only examples that you saw of the  
15       use of pseudoaddiction in marketing and promotional  
16       materials by these defendants?

17          A       No. I've seen many examples in the many  
18       documents that I've reviewed that are consistent with  
19       these examples.

20          Q       Okay. And in your opinion, are the marketing  
21       and promotional messages concerning patients exhibiting  
22       OUD symptoms suffering from pseudoaddiction false or  
23       misleading?

24          A       Yes, they are false and misleading.

25          Q       Can you tell us why?

26          A       So pseudoaddiction is -- it's not -- it's not a

1 scientific concept; it's a made-up term. Furthermore, it  
2 in a very dangerous way contributed to making it more  
3 difficult for prescribers to detect and diagnose  
4 addiction in their patients who had become addicted to  
5 the opioids that they were prescribing. And it  
6 encouraged up-titration, increasing the dose of the  
7 opioid, which paradoxically increased that patient's risk  
8 of becoming further addicted to that opioid.

9 Q And I want to --

10 Can you go back to Slide Number 5, Jon.

11 Misrepresentation Number 3, the, quote-unquote,  
12 average person cannot get addicted to opioids prescribed  
13 by a doctor.

14 Can you -- based on your knowledge and  
15 expertise, can the average person who is prescribed  
16 opioids by their doctor get addicted to those opioids?

17 A Yes, the average person can get addicted through  
18 their doctor's prescription. Nearly anybody could get  
19 addicted through a doctor's prescription, given a high  
20 enough dose for a long enough duration.

21 Q And earlier today you talked about screening  
22 tools to identify patients who are at risk of developing  
23 OUD. Have you done research in the medical and  
24 scientific literature into those screening tools?

25 A Yes. As I've stated earlier, there are no valid  
26 or reliable screening tools to try to predict who will or

1 will not develop an opioid use disorder through a medical  
2 prescription. The opioid risk tool, which was championed  
3 by Lynn Webster, one of the key opinion leaders, had been  
4 shown to be no better than chance in figuring out who can  
5 and cannot -- who will and will not get addicted.

6 And although it is true that individuals bring  
7 varying levels of vulnerability to addiction through a  
8 doctor's prescription, we in the medical community have  
9 yet to discover a way to predict who those individuals  
10 are and the --

11 Q Let me just -- I don't mean to interrupt you,  
12 Doctor, but I just want to make sure that we've got a  
13 question and an answer for what we're doing here.

14 Jon, could you go to Slide 14.

15 So let me -- let me break this down a little  
16 bit. You just mentioned that prescreening for OUD risk  
17 is no better than chance. And I've put a slide up here.  
18 Are these the articles that you rely on for that  
19 particular opinion?

20 A Yes. So the one in the middle, the Clark, et  
21 al., rereviewed the opioid risk tool and found that it  
22 was no better than chance in predicting aberrant behavior  
23 in the course of medical treatment.

24 Q And it -- I don't mean to interrupt you, Doctor,  
25 but we need to do it in question-and-answer format.

26 That's Clark, et al., in Pain Medicine in 2018;



1 is that right?

2 A Yes.

3 Q And can you tell me the significance of the -- I  
4 think it's called Klimas; is that right? Am I  
5 pronouncing that one right?

6 A Yeah.

7 Q JAMA in 2019.

8 A Yeah. So Klimas, et al., did a more thorough  
9 look at screening tools and found that, really, there was  
10 no -- there were no high-quality studies demonstrating  
11 whether or not you could separate out high- from low-risk  
12 patients.

13 Q Okay. And I'd like you to talk about the Edlund  
14 article in Pain Medicine 2014.

15 Let me go back one slide to Slide Number 13,  
16 Jon.

17 Is this a graph from the Edlund article that you  
18 had referenced on the previous slide?

19 A Yes, it is.

20 Q And can you let the Court know what the source  
21 of this graphic is, please?

22 A This is Edlund, et al. The title is "The Role  
23 of Opioid Prescription in Incident Opioid Abuse and  
24 Dependence Among Individuals with Chronic Noncancer  
25 Pain," published in the Clinical Journal of Pain, 2014.

26 Q And can you explain to the Court what this slide

1 represents with respect to your opinions concerning  
2 whether the average person can get addicted to opioids  
3 prescribed by doctors?

4 A Yes. So Edlund, et al., took a very large  
5 population of patients and compared those exposed to a  
6 prescription opioid and those not exposed to a  
7 prescription opioid to figure out if and who would  
8 develop opioid use disorder and what the strength of that  
9 relationship was.

10 And what Edlund, et al., found was that  
11 individuals with no risk factors for opioid use disorder,  
12 like prior mental health disorder -- that's what you see  
13 here on the left-hand side of the screen -- or prior  
14 alcohol use disorder or prior mental health disorder,  
15 history or explicitly a prior opioid use disorder, were  
16 at increased risk to develop opioid addiction compared to  
17 those not exposed to an opioid.

18 But the very significant finding in Edlund, et  
19 al., is on the right-hand side of the study showing that,  
20 if you looked at risk of addiction as measured by how  
21 long the patient was on the prescription opioid and how  
22 high the dose was, that, importantly, for individuals  
23 prescribed an opioid for three months or more, the risk  
24 of developing addiction went up as a function of dose and  
25 that those who received, in the red bar, more than  
26 120 milligrams per day were at 122 times the risk of

1 developing an opioid use disorder than individuals not  
2 exposed to an opioid.

3 Q Can you explain to the Court what a low dose and  
4 medium dose and a high dose is as used in this Edlund  
5 study?

6 A In that study a low dose was defined as 1 to 36  
7 morphine milligram equivalents daily. The medium dose  
8 was defined as 36 to 120 morphine milligram equivalents  
9 daily, and a high dose was defined as anything greater  
10 than 120 morphine milligram equivalents daily.

11 Q Okay. And did you look at the promotional  
12 messages of the defendants related to assertions that the  
13 original person cannot get addicted to opioids prescribed  
14 by a doctor?

15 A Yes, I did.

16 Q And if we turn to Slide 15.

17 Does this slide represent some of the  
18 misrepresentations or some of the examples of the  
19 misrepresentations that the average person cannot get  
20 addicted to opioids through a doctor's prescription?

21 MS. FEINSTEIN: Objection, your Honor, to the  
22 extent that this slide includes messages from third  
23 parties. It lacks -- or it assumes facts not in evidence  
24 and lacks foundation as to any particular defendant.

25 THE COURT: Just a moment.

26 The objection is overruled.

1 BY MS. FITZPATRICK:

2 Q And, Doctor, the exhibits that are already in  
3 evidence that you reference on this slide are P-CA-1391,  
4 P-CA-251, and P-CA-399, correct?

5 A Yes.

6 Q And can you tell the Court why you chose these  
7 examples to demonstrate a common marketing message that  
8 the average person cannot get addicted to opioids through  
9 a doctor's prescription?

10 A These were simply illustrative of this false and  
11 misleading messaging. I'm trying to make this  
12 distinction between, quote-unquote, the average person or  
13 what was commonly referred to in these messages as a  
14 patient being treated for a legitimate pain condition and  
15 to somehow make a distinction between those individuals  
16 and so-called addicts or people who abuse drugs or people  
17 who divert drugs, when, in fact, those individuals,  
18 chronic pain patients and people who become addicted, can  
19 and often are one and the same.

20 Q And was the "American Pain Foundation: A Guide  
21 for People Living with Pain," was that a customer-facing  
22 material or an internal document?

23 A Yes, that was a patient consumer and prescriber  
24 consumer outwardly facing document.

25 Q And I think you testified that the learning  
26 systems were inwardly facing documents; is that right?

1           A       That's right.

2           Q       And did you see consistency among the external  
3       messaging as well as the messaging that was reflected  
4       internally concerning this misrepresentation?

5           A       Yes, I did.

6           Q       Okay. And did you see more examples in the  
7       promotional materials and the promotional messages from  
8       the defendants related to this Misrepresentation Number 3  
9       that the average person cannot get addicted to opioids  
10      through a doctor's prescription?

11               MR. BRODY: Objection, your Honor; vague, and  
12      lacks foundation.

13               THE COURT: Sustained.

14           BY MS. FITZPATRICK:

15           Q       The three documents here that you've represented  
16      here, are those just examples of common promotional  
17      messages that you have seen across --

18               THE COURT: Ms. Fitzpatrick, your voice has, for  
19      some reason, gone into a Star Wars routine is the only  
20      way I can describe it. Would you try that again?

21           MS. FITZPATRICK: Lucky you, Judge.

22               Is that better?

23               THE COURT: That is much better.

24           MS. FITZPATRICK: Okay.

25               THE COURT: You need to ask that question again.

26           BY MS. FITZPATRICK:

1           Q     The three documents that you've identified here,  
2     are these examples of the common marketing message that  
3     you saw across the promotional materials that you  
4     reviewed in this case?

5           MR. KABA:  Objection; foundation, vague, also  
6     leading.

7           THE COURT:  The vague objection is sustained.

8           BY MS. FITZPATRICK:

9           Q     Did you see other examples in the marketing  
10    promotional materials from the defendants of this  
11    Misrepresentation Number 3 that the average person cannot  
12    get addicted to opioids through a doctor's prescription?

13          MR. BRODY:  Objection, your Honor; foundation,  
14    and vague as to "defendants."

15          THE COURT:  Just a moment, please.

16          The vague objection is identified.  The  
17    reference to other materials does not form the basis for  
18    any opinion and is simply going to lead to a distraction  
19    on cross-examination.  Unless the doctor can identify  
20    them now, they should not be referred to.

21          MS. FITZPATRICK:  Your Honor, would you like me  
22    to go through each of them?  Some of the documents are  
23    already in evidence.

24          THE COURT:  I don't know if the doctor can  
25    identify the other materials that you are referring to.  
26    You may ask.

1 BY MS. FITZPATRICK:

2 Q Dr. Lembke, did you look at the documents that  
3 were admitted into evidence in this case?

4 A Yes, I did.

5 Q And did you review the documents -- the  
6 defendants' own documents that were introduced into  
7 evidence in this case to see whether there were other  
8 examples of the Misrepresentation Number 3 that the  
9 average person cannot get addicted to opioids through a  
10 doctor's prescription?

11 A Yes, I did.

12 Q And did you see other examples of that in the  
13 documents that were introduced into evidence in this  
14 case?

15 MR. KABA: Your Honor, I'm going to object again  
16 on vagueness grounds. We don't know what the witness is  
17 referring to, and we have to compare what the witness is  
18 testifying to to what she actually disclosed in her  
19 report as well. And it's impossible to do that with this  
20 sort of question.

21 THE COURT: The vagueness objection is  
22 sustained.

23 MS. FITZPATRICK: Your Honor, I'm just pausing  
24 because I'm trying to think of the most efficient way to  
25 satisfy this without necessarily having to go through  
26 every single exhibit that's in evidence and identify it.

1 So I apologize for just pausing to think of the way that  
2 I can do this most efficiently.

3 BY MS. FITZPATRICK:

4 Q Dr. Lembke, in your opinion, are promotional  
5 messages that represent that the average person cannot  
6 get addicted to opioids through a doctor's prescription  
7 false or misleading?

8 A Yes, that is false and misleading.

9 Q And why is that false and misleading?

10 A The Edlund study shows that the biggest risk  
11 conferred is the dose and duration, not prior risk  
12 factors, which means that, number one, anybody on a high  
13 enough dose for a long enough period of time has a very  
14 high risk of becoming addicted.

15 Furthermore, the so-called average person that  
16 these misleading messages are referring to is set up as  
17 distinct from those individuals with, quote-unquote,  
18 addictive disease who engage in pharmacy theft, forged  
19 prescriptions, taking their pills from other people with  
20 pain, all of which sets up in a recipient's mind this  
21 false distinction between average people or legitimate  
22 pain patients and those drug addicts over there who are  
23 ruining it for the rest.

24 That's a false dichotomy. Anybody receiving an  
25 opioid from a doctor, even for the legitimate treatment  
26 of a medical condition, is at risk of becoming addicted.



1 And the biggest risk factors are not their personal  
2 history of addiction or mental illness but dose and  
3 duration as shown by Edlund.

4 I'd also, if I may speak individually to some of  
5 these misrepresentations, talk a little bit more about --

6 Q Dr. Lembke, if it's okay, I'm going to ask -- I  
7 know that you're used to lecturing, but I need to be able  
8 to ask you the questions just so the record is clear.

9 I do want to turn to the actual  
10 misrepresentations that you have identified on this  
11 particular slide. And if you can tell the Court why you  
12 selected these misrepresentations from the "American Pain  
13 Foundation: A Guide for People Living with Pain," which  
14 is P-CA-1391.

15 THE COURT: Ms. Fitzpatrick, the witness, each  
16 time you've shown her a slide like this, has confirmed  
17 that these are selected because they represent examples  
18 of where she believes the false and misleading statement  
19 appears. Do you want her to say something beyond that?

20 MS. FITZPATRICK: I wanted her to tell you, your  
21 Honor, why she selected these particular  
22 misrepresentations or these particular selections.

23 THE COURT: Dr. Lembke, anything you would add  
24 beyond what I just said?

25 THE WITNESS: Well, perhaps I've already  
26 communicated what I wanted to communicate to you, your

1 Honor. So perhaps there's no need.

2 I do think that the quote on the right-hand side  
3 at the bottom possibly requires some additional  
4 explanation, but perhaps not.

5 I guess I would say to you, your Honor, do you  
6 have any questions about these quotes and how they relate  
7 to the misrepresentation at the top?

8 THE COURT: I do not.

9 Ms. Fitzpatrick, do you have anything else on  
10 this slide?

11 MS. FITZPATRICK: No, I don't, your Honor.

12 Your Honor, I'm going to turn to another topic.  
13 Do you want me to keep going, given that it's the time --

14 THE COURT: No. If you're changing the subject,  
15 let's take a break at this time. We are adjourned until  
16 3:10. Thank you.

17 (A brief recess is taken.)

18 THE COURT: Good afternoon, everybody. We are  
19 back on the record.

20 Ms. Fitzpatrick?

21 THE CLERK: Your Honor, your screen is yellow.

22 THE COURT: How about now?

23 THE CLERK: Okay.

24 MS. FITZPATRICK: I'm here, your Honor. Thank  
25 you. Sorry about that.

26 Jon, can we go back to Slide Number 5.

1 BY MS. FITZPATRICK:

2 Q Dr. Lembke, I want to talk about what you've  
3 termed Misrepresentation Number 4, "Opioids are an  
4 appropriate first-line, long-term treatment for chronic  
5 pain."

6 Let me start with some basic propositions.

7 What is chronic pain?

8 A Chronic pain is usually defined as pain  
9 persisting past the time that would be expected for  
10 normal tissue healing. By most definitions, chronic pain  
11 is pain that lasts most days for three months or more.  
12 There are some definitions in the literature using six  
13 months or more; but, in general, consensus has defined  
14 chronic pain as pain lasting three months or more.

15 Q And how does it differ from acute pain?

16 A Well, acute pain is pain of a short duration; so  
17 typically less than three months.

18 Q Okay. And why is that difference between  
19 chronic pain and acute pain significant when considering  
20 opioid therapies?

21 A Number one, the evidence does support the use of  
22 opioids short term in the treatment of acute pain. There  
23 is no reliable evidence that opioids work or are safe  
24 when used for more than approximately 12 weeks.

25 So that's -- that's a key -- a key piece.

26 Q And is there a difference between using opioids

1 long term to treat chronic pain and using opioids in the  
2 short term to treat chronic pain?

3 A Yeah. So that's an important distinction.

4 If you have a person who has chronic low back  
5 pain, for example, you've had that low back pain for  
6 three months or more, and you treat them with opioids,  
7 they will likely, if they tolerate the opioids,  
8 experience some relief.

9 But if you give that individual an opioid every  
10 day for more than three months, they will likely  
11 experience tolerance, dependence, maybe even interdose  
12 withdrawal. And there is no reliable evidence that the  
13 opioids are actually helping with their pain. In fact,  
14 in that instance, when patients take opioids, their  
15 subjective experience of pain relief is more likely  
16 treating their withdrawal from their last dose rather  
17 than the underlying pain condition.

18 Q You used a term in there, "interdose  
19 withdrawal." Can you tell the Court what that is?

20 A Because of this process of neuroadaptation to  
21 opioids and the tolerance that develops when people take  
22 them every day for more than three months, because they  
23 stopped working, patients will often report that they are  
24 indeed clock-watching, for example, because the analgesia  
25 has worn off before the time when they're supposed to  
26 take their next dose.

1           And once tolerance and interdose withdrawal  
2 occurs, that's a pretty good indication that that opioid  
3 at that dose is no longer helping the patient and may, in  
4 fact, be contributing to harm simply by the fact that now  
5 the patient is in this cycle of interdose withdrawal.

6           And I'll leave it at that.

7           Q     Thank you.

8           If you can pull up, Jon, Slide 16. Let me see  
9 if I've got the right one. There it is.

10           And so, Doctor, can you explain to the Court  
11 what is represented on this slide entitled "Evidence of  
12 opioid benefits insufficient to justify the risks"?

13           A     These are all articles in the medical literature  
14 which I have reviewed which I've included in my report,  
15 which represent important definitive studies of the  
16 benefits of opioids in the treatment of pain lasting  
17 longer than three months.

18           And in each instance, the authors concluded that  
19 the evidence was insufficient or weak to support the use  
20 of opioids in the treatment of -- to support the  
21 long-term use of opioids -- that is, opioids daily for  
22 more than 12 weeks, 12 to 16 weeks -- in the treatment of  
23 chronic pain.

24           Q     And the studies that you chose are dated between  
25 2009 and 2018; is that correct?

26           A     Yes.

1           Q     And can you tell -- point out to the Court a  
2     couple of the studies that you believed most establish --  
3     or are consistent with your opinions here concerning the  
4     use of opioids long term to treat chronic pain?

5           A     The first one by Chou, et al., is particularly  
6     significant because these were clinical guidelines for  
7     the use of chronic opioid therapy published in a  
8     definitive journal representing a definitive professional  
9     organization, the American Academy of Pain Medicine.

10               And their assessment that there was insufficient  
11     evidence to vet the effects on health outcomes was buried  
12     deep in the appendix of this article, when the earlier  
13     sections of this article actually strongly recommended  
14     the use of opioids in the treatment of chronic pain  
15     despite weak evidence. And --

16           Q     And why did you consider the Chou article to be  
17     significant for your opinions in this matter?

18           A     These were very influential guidelines on how  
19     physicians should be approaching opioid therapy and the  
20     treatment of chronic pain published in 2009. And most of  
21     the authors of this article, including the cochairs, were  
22     receiving consulting fees by defendants in this case and  
23     other opioid manufacturers.

24           Q     So let's go to the next slide.

25               And does this reference the Chou article that  
26     you were just discussing?

1           A       Yes, it does.

2           Q       Okay. And tell me, what were the clinical  
3       guidelines for the use of chronic opioid therapy in  
4       chronic noncancer pain that were advocated in this  
5       particular article?

6           A       Well, as I said, this was a very influential  
7       article from an esteemed professional medical society,  
8       the American Academy of Pain Medicine, in conjunction  
9       with the American Pain Society, which put out these  
10      guidelines. And I think it's important to appreciate  
11      that doctors practicing in the modern age rely heavily on  
12      these definitive guidelines to inform them about what  
13      evidence-based care should look like.

14                MS. FITZPATRICK: And if we go to the next  
15      slide, Jon.

16           BY MS. FITZPATRICK:

17           Q       This is entitled "Pain Guidelines Conflict of  
18      Interest." Dr. Lembke, can you tell the Court what this  
19      represents?

20           A       So this has the authors of these guidelines,  
21      many of them on the left-hand side and, on the right-hand  
22      side, their conflicts and disclosures. And, as you'll  
23      see, many of them were receiving income from the  
24      defendants in this case.

25                The importance of this is that the influence  
26      that defendants exercised was very often in this manner

1 behind the scenes, supporting individuals and  
2 institutions that were promoting the expanded use of  
3 opioids in the absence of evidence.

4 And, as a result, the impact on physicians like  
5 me and my peers was to believe that this represented the  
6 best that science has to offer when, in fact, given these  
7 consultations -- or these consulting relationships, I  
8 think it's fair to argue that these individuals were --  
9 were biased.

10 MR. KABA: Objection. Move to strike that last  
11 portion as lacking foundation with respect to the opinion  
12 on bias, your Honor.

13 THE COURT: No, the objection is overruled.

14 BY MS. FITZPATRICK:

15 Q And let's go back to slide -- let me ask you  
16 this: The pain guidelines conflict of interest, the  
17 cochairs, who among the defendants did -- have received  
18 fee income from -- excuse me. Let me start that all over  
19 again. It's getting late in the day for me.

20 Cochair, who among the defendants had provided a  
21 fee income to the cochairs of this clinical guideline?

22 A You can see that cochair Gilbert Fanciullo was  
23 receiving income from Janssen and Teva.

24 Q And Dr. Fine from Cephalon, Endo -- and Endo; is  
25 that right?

26 A Yes. That's right.



1 Q And as you go down this list, there are one,  
2 two, three, four, five, six, seven -- there are more than  
3 a dozen panel members who are identified here; is that  
4 right?

5 A That's right. The majority of the members were  
6 receiving some kind of funding from opioid pharma.

7 Q And that includes funding from Endo; is that  
8 right?

9 A That's correct.

10 Q Funding from Janssen?

11 A Yes.

12 Q Funding from Cephalon?

13 A Yes.

14 Q Funding from Teva?

15 A Yes.

16 Q And if we can go back to Slide Number 16.

17 Now, you have identified these clinical  
18 guidelines as recommending opioid therapy for Dr. Chou in  
19 2009, but also indicate that there is lack of evidence.

20 Can you explain that to the Court?

21 A Well, I mean, it's -- it's difficult, in fact,  
22 to reconcile that the guidelines came out strongly in  
23 favor of using opioids in the treatment of chronic pain  
24 despite sufficient evidence supporting that  
25 recommendation. And, again, as I've just testified, I  
26 think that the fact that the majority authors were taking

1 funding from pharma would support bias in this case.

2 Q And you had testified earlier that you had done  
3 an analysis and research on the -- through the medical  
4 and scientific literature.

5 Did you look through that literature to  
6 determine the body of literature related to the evidence  
7 of opioids' benefits -- excuse me -- the evidence of the  
8 benefits of using opioids long term to treat chronic  
9 pain?

10 A Yes, I did.

11 Q Okay. And could you find evidence in that  
12 medical and scientific literature that supported the use  
13 of opioids long term to treat chronic pain?

14 A No, I could not find evidence to that effect.

15 Q And if opioids are not an effective long-term  
16 treatment option for chronic pain, what in your  
17 experience as a practitioner is an effective or an  
18 appropriate treatment option?

19 A Unfortunately, we do not have very good  
20 treatments for chronic pain. And the other treatments --  
21 there are many other medications that are not opioids.  
22 There are many other interventions -- physical therapy,  
23 psychotherapy, other mind-body strategy -- and none of  
24 them have very good evidence.

25 Q And do any of those other treatment options that  
26 you have identified carry with them a risk of developing

1 addiction?

2 A Not that I'm aware, no.

3 Q And beyond the potential development of OUD and  
4 the ramifications of that, are there other dangers of  
5 using opioids as a first-line treatment for chronic pain  
6 in patients?

7 A There are many other side effects associated  
8 with long-term opioid use. Many people don't, in fact,  
9 tolerate opioids very well, whether long term or short  
10 term. Side effects include constipation, hormone  
11 changes, for example, lowered testosterone especially  
12 when used chronically. Cardiac effects are notable.  
13 People can develop problems with cognition, with  
14 depression.

15 There is, as I spoke of earlier, this phenomenon  
16 of opioid-induced hyperalgesia, showing that individuals  
17 who are on opioids long term actually can experience an  
18 exacerbation of their existing pain condition and/or  
19 develop pain in parts of their body where pain didn't  
20 even exist before.

21 Q Dr. Lembke, in your opinion, are messaging that  
22 assert that opioids are an appropriate first-line  
23 treatment for chronic pain false and misleading?

24 A Yes, on a number of counts. And as I said here  
25 several times, there is no evidence to support their  
26 effectiveness when used longer than about 12 weeks and a

1 mounting evidence of harm when used longer than 12 weeks.

2 And I think that the use of the term "first  
3 line" is also misleading. Opioids only in very rare  
4 instances should be first-line treatment for pain. And  
5 the reason for that, even in acute pain, is that exposure  
6 to opioids even in short term can set up vulnerable  
7 individuals to persist in using those opioids and  
8 developing addiction down the road.

9 Q Doctor, did you look through evidences in the  
10 record in this case to look for examples of this type of  
11 promotional messaging?

12 A I'm sorry. What type of promotional messaging?

13 Q That opioids are an appropriate first-line  
14 treatment for the treatment of chronic pain.

15 A Yes, I did.

16 Q Okay.

17 And I want to pull up first, Jon, P-CA-000421.

18 And, Doctor, do you recognize this document?

19 A Yes, I do.

20 Q And is this a document that you relied on for  
21 your opinions in this case?

22 A Yes, it is.

23 Q And is this a document that you relied on  
24 concerning marketing and promotional messages in this  
25 particular case?

26 A Yes, it is.

1 MS. FITZPATRICK: Your Honor, I believe there's  
2 no objection to the introduction of P-CA-421.

3 MR. KABA: No, that's -- that's not correct. We  
4 reserved objections pending the questions. At least as  
5 framed, we object on foundation grounds, your Honor.

6 THE COURT: Ms. Fitzpatrick, what's the question  
7 relating to the document?

8 MS. FITZPATRICK: I will go through -- it's  
9 going to be marketing messages in here, but if Mr. Kaba  
10 prefers, I can go through the marketing messages in order  
11 to identify them.

12 If we turn --

13 MR. KABA: Your Honor, if I may, the objection  
14 is as to foundation whether or not this witness can  
15 testify that this was used as marketing or promotion.

16 THE COURT: Ms. Fitzpatrick?

17 MS. FITZPATRICK: Your Honor, it's -- on its  
18 face, I don't think you need to be an expert to -- in  
19 marketing and promotion to know that, when you see a  
20 coupon savings card for an opioid product, that it is a  
21 marketing and promotional document.

22 I'm, again, candidly surprised. I understood  
23 that there was no objection to this document, and  
24 Dr. Lembke did use it and rely on it in her report as  
25 something that identified some of these common marketing  
26 and promotional themes that were seen throughout these

1 documents. And, for that reason, we would seek to admit  
2 it into evidence.

3 THE COURT: What is the stipulation, if any,  
4 regarding this document?

5 MS. FITZPATRICK: I'm looking at an e-mail that  
6 I got last night saying -- let me see -- that they are  
7 reserving a right to object to any questions that might  
8 be asked to any of these documents. But beyond that,  
9 there is no objection on hearsay and relevance, on  
10 foundation, on business record, or anything like that.

11 THE COURT: I don't know how to understand that  
12 e-mail. If all objections are reserved, what, if  
13 anything, is stipulated or agreed?

14 MS. FITZPATRICK: Your Honor, that there would  
15 be no objections that would be raised concerning hearsay,  
16 foundation, or that it was a business record.

17 THE COURT: Is that stated in the e-mail?

18 MS. FITZPATRICK: Yes.

19 THE COURT: Mr. Kaba, what is the foundation  
20 objection if there is no objection to foundation?

21 MR. KABA: Your Honor, that's not what the  
22 e-mail says. The e-mail -- I'm looking at it. It says  
23 we, of course, reserve our right to object to any  
24 questions that may be asked about any of these documents.  
25 With respect to this specific exhibit, we said we're  
26 reserving objections pending questions because we didn't

1 know what the witness was purporting the document to be.

2 The foundation objection, your Honor, is this  
3 witness is now being asked to opine that this was  
4 marketing and promotion communication. The only way it  
5 would be relevant is if it was in the plaintiff  
6 jurisdiction. There is no foundation for this witness to  
7 say that this document was used in the plaintiff  
8 jurisdiction as marketing or promotional messages.  
9 That's the foundation objection.

10 THE COURT: If there has been no stipulation to  
11 foundation, the foundation objection is sustained.

12 MS. FITZPATRICK: Thank you, your Honor.

13 Putting aside that -- can we just mark that for  
14 later? Okay. Thank you.

15 BY MS. FITZPATRICK:

16 Q Putting that aside, did you look at other  
17 examples of -- from the documents that are already in  
18 evidence in this case, as cited in your report, that  
19 opioids are an appropriate first-line treatment for the  
20 long-term treatment of chronic pain?

21 A Yes, I did.

22 Q Okay. And if we can turn to Slide 19.

23 Are these some of the examples that you selected  
24 that support Misrepresentation Number 4, "Opioids are an  
25 appropriate first-line treatment for long-term chronic  
26 pain"?

1           A       Yes, they are.

2                   MS. FITZPATRICK: And just for the record, we  
3 are reflecting Exhibit P-CA-1391, Exhibit P-CA-1693,  
4 AL-CA-300050, and JAN-CA-602365.

5           BY MS. FITZPATRICK:

6           Q       And can you tell me why you chose these examples  
7 from the documents that are in evidence in this case as  
8 related to your opinions concerning Misrepresentation  
9 Number 4?

10          A       Yes. And so these statements all allude in some  
11 way to using opioids long term in the treatment of pain,  
12 whether it's the first one, "They may be important to the  
13 management of persistent pain unrelated to cancer," which  
14 again supports this idea of expanded use beyond malignant  
15 end-of-life pain.

16                   The second one, key feature message, this is  
17 important because it refers to an article in the  
18 literature which was 12 weeks in duration, by Katz,  
19 et al. And this article was then used and prompted for  
20 sales reps to use with prescribers in a broader statement  
21 about using opioids to treat pain long term, i.e.,  
22 chronic pain.

23                   Kadian sales rep training one uses this "first  
24 line" language, when, in fact, opioids, very dangerous  
25 drug, should not be used first line, and that's supported  
26 by the CDC guidelines that came out in 2016.



1           And then the "Finding Relief," that's the  
2   patient-facing document that Janssen -- implying that  
3   people being treated with opioids for chronic pain can  
4   return to a normal existence and find that they will use  
5   it long term to somehow get the life back that they had  
6   when there's no evidence to support that.

7           MS. FITZPATRICK: Go back to Slide Number 5  
8   again, Jon.

9           BY MS. FITZPATRICK:

10          Q     Let's turn to misrepresentation -- what you  
11   called Misrepresentation Number 5, "No dose of opioids  
12   for the treatment of pain is too high."

13          Doctor, in your review of the medical and  
14   scientific literature, is there evidence to support the  
15   proposition that no dose of opioids for the treatment of  
16   pain is too high?

17          A     No. There's -- there's no evidence to support  
18   that, and there is evidence to support the opposite.

19          Q     Okay.

20          Please go to Slide 20, Jon.

21          Does this slide reflect some of the support that  
22   you have for your opinion that no dose of opioids for the  
23   treatment of pain too high is a false message?

24          A     Yes. So this shows the odds ratio or the risk  
25   of overdose in individuals treated with different amounts  
26   of opioids for chronic pain. There's a group of patients

1 receiving no opioids, less than 20 morphine milligram  
2 equivalents, 20 to 50, 50 to 100, and then greater than  
3 100 and looking at their risk of overdose as a function  
4 of the dose that they are receiving. It's showing that  
5 the higher the dose the higher the risk of opioid  
6 overdose.

7 And this is Dunn, et al., at the bottom, but  
8 these -- these findings have been replicated in other  
9 studies -- the Gomes article, Bonnard, et al. -- showing  
10 very similar findings.

11 Q For the record, this is Dunn, et al., "Opioid  
12 Prescriptions for Chronic Pain and Overdose: A Cohort  
13 Study." Is that right?

14 A That's right.

15 Q And when was that published?

16 A 2010.

17 Q And where was that published?

18 A In the Annals of Internal Medicine.

19 Q Is that a reputable journal?

20 A Yes, it is.

21 Q Is there a relationship between exposure to  
22 opioids and the potential of overdose and deaths?

23 A Yes. That's what this slide is showing, that  
24 the higher the exposure, the higher risk of opioid  
25 overdose and death.

26 Q And are promotional messages that state or

1 suggest that no dose of opioids for the treatment of pain  
2 too high, do you have an opinion as to whether that is a  
3 false or misleading message?

4 A Yes. I believe that to be false and misleading.

5 Q Do you have any other reason than what we've  
6 just discussed with the Court?

7 A To believe that that's false and misleading?

8 Q Yes.

9 A Not right now.

10 Q Okay. And did you look through the documents  
11 that are in evidence in this case to determine whether  
12 there are -- to look for examples of this type of  
13 promotional messaging related to no dose of opioids for  
14 the treatment of chronic pain is too high for the  
15 defendants in this case?

16 A Yes, I did.

17 MS. FITZPATRICK: Okay. We can turn to  
18 Slide 21, Jon.

19 And just for the record, this slide reflects  
20 P-CA-1391, P-CA-401, P-CA-579, P-CA-625, P-CA-251.

21 BY MS. FITZPATRICK:

22 Q And can you tell the Court why you selected  
23 these examples from documents that are in evidence that  
24 are related to your opinions concerning the marketing  
25 message that no dose of opioids for the treatment of pain  
26 is too high?

1           A       So the first on the left from the American Pain  
2       Foundation uses language that was common in these false  
3       and misleading messages, namely that no ceiling dose  
4       exists.

5                   It's important to clarify that,  
6       pharmacologically, opioids do not have a ceiling dose. A  
7       ceiling dose is defined as finding the receptor and  
8       continuing to stimulate the receptor as the amount of the  
9       opioid goes up.

10                  But it's misleading here to use a pharmacologic  
11       term to talk about how the drug works at the cellular  
12       level to communicate that that is true in a clinical  
13       setting when, in fact, there's evidence showing that the  
14       higher the dose the higher the morbidity and mortality.

15                  Also, this juxtaposition of opioids with NSAIDs,  
16       or nonsteroidal anti-inflammatory, was a common  
17       misleading strategy to get providers who do struggle with  
18       the side effects of NSAIDs, putting their patients at  
19       higher doses in particular, mainly GI side effects --  
20       ulcers, bleeding dyscrasia. But to juxtapose that with  
21       NSAIDs was a way to promote opioids saying how you can't  
22       keep going up on NSAIDs or, for that matter, Tylenol  
23       because of the liver damage that Tylenol can cause, but  
24       opioids you can keep going up and up.

25                  And then other misleading messages in the  
26       statement. I can run through the others if you like.

1           Q     No. I just wanted to reflect it for the record  
2     if there's anything specific in here that you need to  
3     draw the judge's attention to that requires your  
4     specialized skill or knowledge to explain. Otherwise, we  
5     will move on.

6           A     The only thing that I would point your Honor's  
7     attention to is the frequent use of "tolerance." For  
8     example, in the Endo quote, which is second -- it's in  
9     the middle on the left-hand side -- it says, "If  
10    tolerance does occur, it does not mean that you will run  
11    out of pain relief."

12                Your Honor, that's exactly what tolerance means.  
13    It means that you will run out of pain relief. And  
14    you've got one of two options then. You've got to go up  
15    on the dose, or you've got to get off.

16           Q     And, Doctor, just so I'm clear, are these  
17    examples of the type of promotional messages that you  
18    believe are false or misleading?

19           A     Yes, these are examples. And I think this idea  
20    of "no dose is too high" represents a particularly  
21    insidious false and misleading message among my peer  
22    group of physicians. We -- I was the recipient of these  
23    messages, and I, with my peers, truly believed at one  
24    point that we could just go up and up and up on the dose  
25    and our patients wouldn't be harmed. And, as a result,  
26    we have an entire generation of patients who are on

1 extremely high, extremely dangerous doses and now  
2 struggling to get off.

3 MS. FEINSTEIN: Excuse me. Objection, your  
4 Honor, to the last response and move to strike the end of  
5 that answer as unfounded hearsay as to her colleagues and  
6 the causation is an improper opinion without foundation.

7 THE COURT: Just a moment.

8 Everything after the first sentence in the  
9 answer was nonresponsive to the question and is stricken.

10 BY MS. FITZPATRICK:

11 Q And let's turn to Misrepresentation Number 6,  
12 "Physiologic opioid dependence is benign and easily  
13 reversible."

14 Did you look at that misrepresentation to see  
15 whether it's supported in the medical and scientific  
16 literature?

17 A Yes, I did.

18 Q So let's start with what is physiologic opioid  
19 dependence?

20 A Physiologic opioid dependence is the process of  
21 neuroadaptation to the presence of the opioid, resulting  
22 in downregulation of dopamine and our own endogenous or  
23 internal production of our own opioids to accommodate the  
24 external or exogenous influx of opioids, leading to a  
25 condition where, if that individual were to lower their  
26 dose of opioids or stopped abruptly, they would venture

1 into the classic syndrome of opioid withdrawal.

2 Q And is there support in the medical and  
3 scientific literature for the proposition that, once a  
4 patient develops physiologic opioid dependence, it is  
5 benign and it is easily reversible?

6 A No. In fact, there's a growing body of work  
7 showing that, for patients who become physiologic --  
8 physiologically dependent on opioids, especially chronic  
9 pain patients, that lowering their dose or getting off  
10 altogether is extremely difficult.

11 MS. FITZPATRICK: If we can turn to Slide 22,  
12 Jon.

13 BY MS. FITZPATRICK:

14 Q And does this slide, entitled "Dependence is a  
15 Serious Condition and Hard to Treat," summarize your  
16 findings from your review of the medical and scientific  
17 literature concerning whether opioid dependence is benign  
18 and easily reversible?

19 A Yes. So these are a series of studies that  
20 undertook trying to taper opioid-dependent chronic pain  
21 patients who, importantly, did not meet the five criteria  
22 for opioid use disorder but were -- merely met criteria  
23 for physiologic dependence and struggled to get off.

24 So, for example, the Weimer study was a study  
25 showing tremendous effort on the part of a large clinic  
26 to help these individuals taper down and finding that it

1 was extremely difficult to do so.

2 And, by the way, these were individuals in whom  
3 it had already been determined that the risks of  
4 continuing on opioids outweighed any potential benefits.  
5 In other words, they were deemed to not be experiencing  
6 benefit from continuing opioids and were experiencing  
7 harms.

8 Q Dr. Lembke, can you tell the Court what  
9 breakthrough pain is?

10 A Breakthrough pain is a phenomenon of patients  
11 who have become tolerant to and dependent on opioids who  
12 then experience pain in the midst of a period of time  
13 when that opioid should be managing or covering their  
14 pain. So breakthrough pain is, in essence, an example of  
15 the development of tolerance to the analgesic effects of  
16 opioid.

17 Q And going back to your clinical experience and  
18 the work that you've done, the BRAVO protocol that you  
19 previously identified, is that related to this topic of  
20 whether or not opioid dependence is benign and easily  
21 reversible?

22 A Yes. The BRAVO protocol was developed in  
23 recognition that tapering chronic pain patients who are  
24 physically dependent on opioids to lower doses is  
25 difficult to do. And it requires a certain amount of  
26 expertise. It requires time. It requires extensive



1 health services. It requires the patient to endure quite  
2 a bit of pain and suffering.

3 So the BRAVO protocol was a way to help support  
4 healthcare providers in helping patients taper when the  
5 risks of continuing outweighed any potential benefit.  
6 And the BRAVO protocol -- sorry -- just one more thing I  
7 want to add -- you know, does review the evidence of  
8 risks versus benefits.

9 And the Frank, et al., article here, which is  
10 the second-to-last bullet point, speaks to a growing  
11 number of studies showing that when these patients do  
12 taper to lower doses or off of opioids, many of them  
13 experience improvement in pain. So their pain actually  
14 gets better or it gets no worse.

15 Q And has that been something that you have seen  
16 in your clinical experience in treating patients who have  
17 opioid dependence?

18 A Yes, it is.

19 Q And in addition to the medical and scientific  
20 literature that you cite here for the proposition that  
21 opioid dependence can be a difficult condition to treat,  
22 is that also something that you see in your clinical  
23 practice in treating patients who have opioid dependence?

24 A Yes. A growing number of patients in our clinic  
25 expressly come to us for help with opioid tapering in the  
26 context of opioid dependence. These are typically not

1 patients who meet criterion for opioid use disorder.

2 They are patients with chronic pain who have been taking  
3 opioids for years exactly as prescribed by their doctor.

4 Q And I want to go through -- back to this issue  
5 of breakthrough pain. And if you can turn to Slide 23.

6 And you've identified here documents in evidence  
7 as P-CA-1303, the 2005 document entitled "Actiq Marketing  
8 Plan."

9 What is the relevance of P-CA-1303 to your  
10 opinions here concerning breakthrough pain?

11 A I think it's important to make the distinction  
12 that in somebody on hospice care who has 12 weeks to  
13 live, and we're trying to relieve their agony at the end  
14 of life and we give them opioids and they experience  
15 breakthrough pain, in that context that it would very  
16 much make sense to give them additional opioids on top of  
17 that to ease their suffering because the amount of time  
18 they have to live makes the issue of developing addiction  
19 for that matter, you know, overdose irrelevant.

20 But in the context of treating chronic pain,  
21 this notion of breakthrough pain, I think, has a very  
22 deleterious effect because it then encouraged providers  
23 to pile one opioid on top of another.

24 We were encouraged to have long-acting opioid  
25 and then to prescribe additionally short-acting opioids  
26 to be taken for, quote-unquote, breakthrough pain. If

1     there was breakthrough through the short-acting opioids,  
2     we were encouraged to prescribe fast-acting opioids to  
3     immediately target breakthrough pain using things like  
4     transmucosal fentanyl products to squash the breakthrough  
5     pain.

6             But the result of all of that, ultimately, is  
7     that the patient ends up on higher and higher doses,  
8     develops more tolerance to those doses, which then  
9     requires higher doses of both the long-acting agent and  
10    the short-acting agent for breakthrough pain, increasing  
11    their risk of overdose and addiction.

12            Q     And, Dr. Lembke, can you tell me, are there  
13    risks to a patient while undergoing treatment for OUD or  
14    opioid dependence?

15            A     I'm not sure I understand your question.

16            Q     Let me -- let me try it again.

17                    Do patients who are undergoing treatment for  
18    OUD, medically assisted treatment for OUD and dependence,  
19    do those treatments present unique risks or independent  
20    risks to patients?

21            A     Okay. So the pharmacologic therapies that we  
22    have for opioid use disorder consist of three  
23    medications: buprenorphine, commonly referred to as  
24    Suboxone; methadone maintenance provided in liquid form  
25    through a methadone maintenance clinic; and naltrexone,  
26    which is an opioid receptor blocker.

1           So just focusing on the first two,  
2   buprenorphine -- both methadone and buprenorphine are  
3   unique opioids in that they have a very long half life.  
4   And the reason why that's helpful in the treatment of  
5   opioid use disorder is because it gets individuals out of  
6   this cycle of intoxication, withdrawal, and drug seeking,  
7   which takes so much of their energy and creativity, and  
8   it achieves this steady state.

9           Also buprenorphine has some additional features  
10   that make it safer than other opioids. It is less likely  
11   to cause respiratory suppression or respiratory  
12   depression than other opioids, making it less likely to  
13   result in accidental overdose, although it too can  
14   contribute to accidental overdose, especially in  
15   combination with other competing agents.

16         Q     Dr. Lembke, in your opinion, are marketing  
17   messages that suggest that opioid dependence is benign  
18   and easily reversible false and misleading?

19         A     Yes.

20         Q     And did you go through some of the documents  
21   that are in evidence in this case to find examples of  
22   promotional messaging that suggests that opioid  
23   dependence is benign and easily reversible?

24         A     Yes, I did.

25         Q     If we can go to Slide 24, Jon.

26                Doctor -- do you want to take a quick break,

1 Doctor?

2 A No. I'm okay.

3 Q Okay. I just wanted to make sure.

4 What's up on the slide are document references  
5 P-CA-1391, P-CA-399, and P-CA-251.

6 Are those examples of the Misrepresentation  
7 Number 6, that is, "Physiological opioid dependence is  
8 benign and easily reversible"?

9 A Yes, they are.

10 Q Okay. Can you explain to the Court why you  
11 chose these three documents as examples of that marketing  
12 messaging?

13 A Yes.

14 So on the left-hand side, both of those messages  
15 equate the physical dependence from opioids to dependence  
16 that occurs to other medications. Although it is true  
17 that patients can habituate to blood pressure medications  
18 like beta blockers, it's misleading to equate the  
19 severity and morbidity associated with opioid dependence  
20 and opioid withdrawal to that experienced when people  
21 habituate to things like beta blockers.

22 Q Can I just clarify that what you're talking  
23 about on the left-hand side are references to P-CA-1391  
24 and P-CA-399?

25 A Yes. Right.

26 And then the other important thing here is

1     there's lots of misleading messaging that talks about  
2     dependence and tolerance and withdrawal not having  
3     anything to do with addiction. It's making this very  
4     stark distinction between opioid use disorder and  
5     physical dependence when, in fact, of the 11 criterion  
6     the DSM-5 used to diagnose opioid use disorder, two of  
7     those criteria are tolerance and withdrawal.

8             And these phenomena are linked. They are not  
9     distinct phenomena.

10            Q     And, Doctor, I want to turn now to something  
11     that I believe you referenced earlier today, which was  
12     the gateway effect. Can you explain to the Court what  
13     the term -- what you mean by gateway effect?

14            MR. BRODY: Objection, your Honor; cumulative of  
15     Dr. Stafford and Dr. Quick.

16            THE COURT: Ms. Fitzpatrick, what would be  
17     different or additional about this?

18            MS. FITZPATRICK: Your Honor, I'm just laying --  
19     truly in just a -- not too many questions -- of  
20     Dr. Lembke's understanding of the gateway effect. And  
21     I'm going to tie it together with laying a foundation  
22     later and asking her ultimate opinions in this case about  
23     the cause and effect.

24            THE COURT: I have not previously raised the  
25     issue, nor have counsel, that the doctor has been asked  
26     numerous questions that others have defined.

1 Breakthrough pain is one example. Chronic pain is  
2 another example. The definition of opioid is another  
3 example.

4 Cumulatively, these repetitive questions do take  
5 up inordinate amounts of time. Unless it is essential to  
6 redefine gateway effect, please just ask your questions.

7 BY MS. FITZPATRICK:

8 Q Doctor, I'm just going to ask you just a couple  
9 of questions here without going into too much detail.

10 Have you done research and looked at whether  
11 both medical and nonmedical use of prescription opioids  
12 can be gateways to heroin use?

13 A Yes, I have.

14 Q And do you, based on the research that you have  
15 done in this case, and your experience in treating those  
16 who suffer from OUD and opioid dependence, believe that  
17 both medical and nonmedical use of prescription opioids  
18 can be gateways to heroin use?

19 MR. BRODY: Same objection, your Honor;  
20 cumulative of Dr. Quick and Dr. Stafford.

21 THE COURT: Overruled.

22 THE WITNESS: Yes, I believe that the weight of  
23 the evidence shows that exposure to prescription opioids,  
24 whether obtained medically or nonmedically and used  
25 medically or nonmedically, increases that individual's  
26 risk of using heroin at a later date.

1 BY MS. FITZPATRICK:

2 Q Dr. Lembke, I want to ask you some opinions in  
3 this case. And I can do that since it's a bench trial.  
4 I'm just going to ask you a series of questions, not what  
5 your opinion is but to what's called lay the foundation  
6 for the opinions. So just whether you have opinions or  
7 not. Okay?

8 A Okay.

9 Q I don't want to run afoul of any of the Court  
10 orders.

11 Earlier today you testified that prior to the  
12 1990s, there was a conservative consensus against the use  
13 of prescription opioids for the treatment of chronic  
14 pain, correct?

15 A Yes.

16 Q And as part of your professional research work  
17 at Stanford in the areas of prescription opioids and  
18 their use, have you investigated the rates in opioid  
19 prescribing from the 1990s to the present?

20 A Yes.

21 Q And you testified about those increased rates  
22 earlier today, correct?

23 A Yes.

24 Q And as part of your professional work at  
25 Stanford in the area of prescription opioids and OUD,  
26 have you investigated what -- any of the potential causes



1 of this increased rates of opioid prescribing from the  
2 1990s to the present?

3 A Yes, I have.

4 Q And did you attempt, in doing that work, to  
5 investigate factors that may have -- all factors that may  
6 have contributed to this change in the conservative  
7 consensus?

8 A Yes, I did.

9 Q And in doing this investigation, did you review  
10 medical and scientific literature?

11 MR. KABA: Objection; leading.

12 THE COURT: Overruled.

13 THE WITNESS: Yes, I did.

14 BY MS. FITZPATRICK:

15 Q And how did you go about selecting or reviewing  
16 medical and scientific literature in order to reach your  
17 opinions?

18 A I used search words to collect articles from the  
19 literature. I specifically looked for articles that had  
20 differences of opinion so as to not leave out any  
21 perspective.

22 I looked at consensus statements from learned  
23 bodies like the National Academies of Sciences,  
24 Engineering, and Medicine and what they had concluded  
25 from similar types of literature searches.

26 I compared my reading of the literature with the

1 documents provided by defendants in this case as well as  
2 incorporated my own qualitative research, interviews I  
3 had done with healthcare providers and patients.

4 Q Let me -- let me break this down, Dr. Lembke. I  
5 just want to make sure that we're doing this.

6 So I had asked you about the medical and  
7 scientific literature that you had researched. Was your  
8 method of going about obtaining and reviewing that  
9 medical, scientific literature when you were  
10 investigating the factors that may have contributed to  
11 the change in the conservative consensus -- was that  
12 consistent with the research techniques that you  
13 regularly utilize in your position at Stanford  
14 University?

15 A Yes, it was. And I've included everything that  
16 I reviewed in the materials considered, which is more  
17 than 600 articles.

18 Q And is the methodology that you used to review  
19 that medical and scientific -- to both obtain and to  
20 review that medical and scientific literature -- is that  
21 consistent with the way that research is done in your  
22 field?

23 A Yes, that's a standard academic approach to  
24 understanding the medical science.

25 Q Okay. And in addition to your review of, I  
26 think, over 600 medical and scientific -- well, first of

1 all, let me ask this: The medical and scientific  
2 literature that you reviewed and you relied on, did you  
3 identify that in your expert report in this case?

4 A Yes, I did.

5 Q And have you also used that medical and  
6 scientific literature for other academic publications by  
7 you outside of an expert report in this case?

8 A Yes, I have.

9 Q And what academic publications are those?

10 A I and colleagues published an analysis of a 2013  
11 Medicare database looking at what types of doctors are  
12 prescribing opioids and found that opioid prescribing is  
13 not --

14 Q I'm going to ask you to hold off on what the  
15 actual opinions are. Doctor, I'm just asking you the  
16 methodology for how you got there, if that's okay.

17 A Okay. So we analyzed Medicare Part D 2013  
18 database. I've also published articles on the  
19 appropriate perioperative use of buprenorphine, analyzing  
20 the literature and taking expert consensus opinion. I've  
21 published articles looking at the use generally of opioid  
22 agonist therapy perioperatively in patients with opioid  
23 use disorder.

24 I've published articles -- and, again, this is  
25 all with collaborators and colleagues -- looking at  
26 weighing the risks, benefits, and alternatives of the use

1 of opioids in the treatment of chronic pain to deeply  
2 understand what the evidence actually shows.

3 Q And, Doctor, I want to focus on the particular  
4 issue of the factors that you investigated to  
5 determine -- or to reach opinions on what contributed to  
6 the change from the conservative consensus in the 19 --  
7 prior to the 1990s, to the more liberal use of opioids in  
8 the 2000s and beyond. Okay?

9 So focusing on that particular opinion, have you  
10 reviewed the literature -- the medical and scientific  
11 literature that you identified in your report here for  
12 the support of those opinions? Have you also published  
13 that -- those opinions and that work elsewhere relying on  
14 the same literature?

15 A Yes.

16 Q And where did you publish your research outside  
17 of your expert opinion in this case -- or your expert  
18 report in this case?

19 A Looking at that narrower question of how opioid  
20 messaging impacted physician prescribing, my major  
21 contribution to that literature is my book based on  
22 qualitative interviews that I've done.

23 Q And what other information did you rely on  
24 besides the medical and scientific literature to reach  
25 your opinions on whether opioid messaging impacted  
26 physician prescribing?

1           A       Well, I looked at, you know, specific empirical  
2       studies in this literature. I also looked at consensus  
3       reports. For example, the May 2017 report in the  
4       literature.

5                   I then compared what I found there to the  
6       misleading messaging to try and see whether or not that  
7       messaging was, in fact, informed by the science.

8           Q       And going beyond whether the messaging was  
9       actually informed by the science, what did you do to  
10      determine whether that marketing -- those marketing  
11      messages had an actual impact on access to or  
12      availability of opioids?

13          A       Um-hum.

14                  Well, I think, first and foremost, again, I  
15      interviewed stakeholders in the medical community to find  
16      out what their exposure was to any marketing and  
17      messaging material on opioids and how it impacted their  
18      prescribing. And I also related it to my own personal  
19      experience, having been the recipient of this messaging  
20      in its heyday, and how -- how I was impacted by that  
21      messaging as well as my clinical experience of seeing  
22      patients being prescribed opioids from their doctors and  
23      the impact that it had on those individuals.

24          Q       And is that an accepted methodology in your  
25      field to reach conclusions to answer the question of  
26      whether the messaging material concerning opioids

1 impacted prescribing of opioids?

2 A Yes, it is.

3 Q And you have mentioned in there how -- your own  
4 personal experience of having been a recipient of this  
5 messaging. Can you tell us what your own personal  
6 experience having been a recipient of this messaging was?

7 A Yes. I will say when I graduated from medical  
8 school, I had received minimal training in addiction and  
9 also minimal training in the treatment of pain. Very  
10 limited hours dedicated to either of those subjects.

11 And then in my early career -- well, in my  
12 residency, I was exposed to a gradual and iterative  
13 paradigm shift that was influenced by messages like pain  
14 is undertreated because physicians are opioidphobic and  
15 we are, in fact, harming patients because we are  
16 withholding opioids.

17 I remember when the Joint Commission came to my  
18 hospital and told us that pain is the fifth vital sign  
19 and that we should screen every patient for pain and  
20 that, if we were not doing that and doing, quote-unquote,  
21 everything in our power to target their pain, then we  
22 were remiss and, in fact, violating to some extent their  
23 right to pain treatment.

24 And I also, again, through my entire early  
25 career starting in the late 1990s to approximately 2010,  
26 was repeatedly inundated with the message that, as long

1 as I, the physician, am prescribing to a patient with a  
2 bona fide and legitimate pain condition, their chances of  
3 getting addicted to the opioid that I was prescribing  
4 were so small as to be discounted, negligible, not an  
5 area of concern.

6 Q And, Doctor, going beyond your own personal  
7 experience --

8 THE COURT: Ms. Fitzpatrick, just before you ask  
9 the question, would you take the slide down since it  
10 dominates the screen?

11 MS. FITZPATRICK: I'm so sorry, your Honor.

12 THE COURT: Thank you.

13 BY MS. FITZPATRICK:

14 Q Okay. And, Doctor, going beyond your own  
15 personal experience, did you reach opinions in this case  
16 as to whether the marketing misrepresentations that you  
17 identified, the six misrepresentations, influenced or  
18 were a cause of increased prescribing of opioids?

19 A Yes. I believe that the false and misleading --

20 MR. BRODY: I'm sorry, your Honor. The question  
21 was simply whether she had reached opinions. I object on  
22 foundation grounds to the expression of those opinions.

23 THE COURT: At this stage the question just  
24 calls for a yes or a no.

25 THE WITNESS: Can you restate the question,  
26 please.

1 BY MS. FITZPATRICK:

2 Q Doctor, going beyond your own personal  
3 experience, did you reach opinions in this case as to  
4 whether the marketing misrepresentations that you  
5 identified, the six misrepresentations that we discussed,  
6 were -- caused an increased prescribing of opioids by  
7 physicians?

8 A Yes, I did reach an opinion about that.

9 Q And what is that opinion?

10 MR. BRODY: I object, your Honor; lack of  
11 foundation.

12 THE COURT: Overruled.

13 MR. KABA: Your Honor, I would also join in that  
14 objection and note that the witness testified -- when the  
15 witness was testifying as to foundation, or the attempt  
16 to lay foundation, one of the first things she said was  
17 she interviewed stakeholders in the medical community to  
18 find out about exposure to marketing and messaging. That  
19 is hearsay.

20 And insofar as it's driving an opinion with  
21 respect to the plaintiff-specific jurisdiction, it's  
22 case-specific hearsay for which no exception applies.

23 So I would add a hearsay objection on top of the  
24 foundation objection.

25 THE COURT: The objection is overruled.

26 BY MS. FITZPATRICK:



1 Q And, Dr. Lembke, what is your opinion?

2 A My opinion is that the false and misleading  
3 messages on the part of the defendants was a significant  
4 factor in opioid overprescribing and the development of  
5 the opioid epidemic.

6 MS. FITZPATRICK: Your Honor, we have nothing  
7 further.

8 THE COURT: Dr. Lembke, as is apparent, you will  
9 need to come back. I think rather than have examination  
10 start at this hour, I'm going to adjourn at this time.  
11 The defendants will begin their cross-examination at  
12 9:00 a.m.

13 Now that the examination has concluded, under  
14 the rules applicable to this trial, you are not allowed  
15 to discuss your testimony with the People's counsel.  
16 Please take that seriously.

17 THE WITNESS: Yes, I will, your Honor.

18 THE COURT: We are adjourned until 9:00 a.m.  
19 tomorrow morning. Thank you.

20 MS. FITZPATRICK: Thank you, your Honor.

21 (Conclusion of proceedings at 4:14 p.m.)  
22  
23  
24  
25  
26

REPORTER'S CERTIFICATE

I, Carolyn Gregor, CSR NO. 2351, approved court reporter pro tempore, do hereby certify that the foregoing Reporter's Transcript; consisting of pages through 2523, is a full, true and correct transcription of my shorthand notes thereof, and a full, true and correct statement of the proceedings had in said cause, taken via Zoom, to the best of my ability.

Dated at Newport Beach, California, this  
18th day of May, 2021.

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CAROLYN GREGOR, CSR 2351, CRR, CM, RDR  
COURT APPROVED REPORTER PRO TEMPORE

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